

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>ML-47078</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>			9. WELL NAME and NUMBER: <b>Rock House 11-23-11-2</b>	
3. ADDRESS OF OPERATOR: <b>475 17th St., Ste 1500</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80220</b>			10. FIELD AND POOL, OR WILDCAT: <b>Undesignated</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>2199' FNL - 861' FWL SWNW, Sec 2-11S-23E</b> AT PROPOSED PRODUCING ZONE: <b>1261' FNL - 665' FWL NWNW, Sec 2-11S-23E</b>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNW 2 11S 23E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>75.2 miles Southeast from Vernal, Utah</b>			12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>Surf 861' BHL 665'</b>		16. NUMBER OF ACRES IN LEASE: <b>640 acres</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 acres</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>1000' + BHL (25' Surf)</b>		19. PROPOSED DEPTH: <b>7,470</b>	20. BOND DESCRIPTION: <b>RLB0008031</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5413' KB-RT</b>		22. APPROXIMATE DATE WORK WILL START: <b>8/1/2006</b>	23. ESTIMATED DURATION: <b>20 days</b>	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

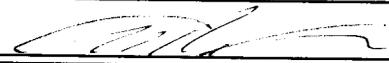
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
20"	14" line pipe	40	3 yards	Ready Mix	
11"	8-5/8" J-55 24#	2,000	Premium Lead	138 sxs	3.50 11.1
			Premium Tail	138 sxs	1.15 15.8
7-7/8"	4-1/2" N-80 11.6#	7,470	Class G	92 sxs	3.3 11.0
			50/50 Poz Class G	861 sxs	1.56 14.3

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist

SIGNATURE  DATE 5/16/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-38154

APPROVAL:

**RECEIVED**  
**MAY 30 2006**



**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

May 24, 2006

State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt lake City, Utah 84114-5801

Attention: Diana Whitney

**RE: Rock House 11-23-11-2                      ML-47078**  
**SURF 2199' FNL - 861' FWL                      SWNW, Sec 2-11S-23E**  
**BHL 1261' FNL - 665' FWL                      NWNW, Sec 2-11S-23E**  
**Uintah County, Utah**

Dear Ms. Whitney

Attached are two original applications to drill for the above-referenced proposed well. This well will be drilled on SITLA lands. There will be two wells drilled (both directionally) from this well pad. The APD for the Rock House 11-23-12-2 will be submitted just as soon as the directional drill plan is received.

Enduring Resources, LLC respectfully requests that this information, and future information, be held confidential.

Should you have any questions concerning this matter, please do not hesitate to call (303-350-5114)

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/  
Attachments as stated:

SITLA

RECEIVED

MAY 30 2006

DIV. OF OIL, GAS & MINING

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

May 24, 2006

State of Utah  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801  
Attention: Ms. Diana Whitney

**RE: Exception Locations – Directional Drilled Wells**  
Uintah County, Utah ML-47078

Dear Ms. Whitney:

Enduring Resources, LLC respectfully requests a spacing exception for the following wells. Two wells will be drilled from this well pad. Surface locations will be 25', more or less apart. BHL's for each well will be in its own "assigned" 40-acre, 200' drilling window. No BHL's will be within 960' of each other. **Both of the wells on this pad are being drilled directional to limit surface impact and avoid building two well pad on steep slopes.**

<u>WELL NAME&amp; NUMBER</u>	<u>WELL LOCATIONS</u>
a. Rock House 11-23-11-2	SURF 2199' FNL - 861' FWL SWNW, Sec 2-11S-23E BHL 1261' FNL - 665' FWL NWNW, Sec 2-11S-23E
b. Rock House 11-23-12-2	SURF 2204' FNL - 886' FWL SWNW, Sec 2-11S-23E BHL 2578' FNL - 664' FWL SWNW, Sec 2-11S-23E

Enduring Resources, LLC is the only lease owner within a 460' radius of any point of either of the well bores, the surface locations, and the two BHL's, to be drilled from this pad.

Therefore, Enduring Resources, LLC hereby grants itself permission to directionally drill the two wells and the two exception well locations.

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/

# Enduring Resources, LLC

**Rock House 11-23-11-2**  
NW-NW 2-11S-23E (Bottom Hole Location)  
SW-NW 2-11S-23E (Surface Location)  
Uintah County, Utah

State Lease: ML-47078

## ONSHORE ORDER 1 - DRILLING PLAN

### 1. Estimated Tops of Geological Markers:

Formation	Depth (K.B.)
Uinta	Surface
Green River	530'
Wasatch	3849'
Mesaverde	5814'

### 2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals:

Substance	Formation	Depth (K.B.) TVD
	KB-Uinta Elevation: 5413' est.	
Oil / Gas	Green River	233'
Oil /Gas	Wasatch	3153'
Oil /Gas	Mesaverde	4993'
	TD	7470'

An 11" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

### 3. Pressure Control Equipment: (3000 psi schematic attached)

- A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer on 3,000 psi casinghead, with 3,000 psi choke manifold equipped per the attached diagram. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, stroke counter and flow sensor will be installed to check for flow and monitor pit volume.
- B. Pressure Rating: 3,000 psi BOPE
- C. Kelly will be equipped with upper and lower Kelly valves.
- D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### E. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

## 4. Proposed Casing & Cementing Program:

### A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (MD)
20"	14" O.D.				40' (GL)
11"	8-5/8"	24#	J-55	ST&C	0 – 2016' (KB) est.
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 7470' (KB)

The surface casing will have guide shoe, 1 joint, insert float collar. Centralize the shoe joint with bowspring centralizers in the middle and top of the joint and the next 16 joints with bowspring centralizers on every other collar (8 centralizers total). Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

**B. Casing Design Parameters:**

Depth (MD)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40' (GL)	14" OD			
2016' (KB)	8-5/8", 24#/ft, J55, STC	1370/1.52(a)	2950/3.28(b)	244/5.81(c)
7470' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.64d)	7780/2.18	223/2.99

- (a.) based on full evacuation of pipe with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation of pipe with 10.0 ppg fluid on annulus
- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient
- (f.) based on casing string weight in 9.2 ppg mud

**PROPOSED CEMENTING PROGRAM**

**Surface Casing (if well will circulate)-Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	1516	Premium cement + 16% gel + 0.25 pps celloflake	138	25%	11.1	3.50
8-5/8"	Tail	500	Premium cement + 2% CaC <sub>2</sub> + 0.25 pps celloflake	138	25%	15.8	1.15

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft<sup>3</sup>/sx) cement will be premium cement w/ 3% CaCl<sub>2</sub> + 0.25 pps celloflake. Volume as required

**Surface Casing (if well will not circulate) - Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25	15.8	1.15
8-5/8"	Top job	As req.	Premium cement + 3% CaCl <sub>2</sub> + 0.25 pps celloflake	As Req.		15.8	1.15

**Production Casing and Liner** - Cemented TD to 300' above base of surface casing

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
4-1/2"	Lead	1037	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extender	92	25	11.0	3.3
4-1/2"	Tail	4717	50/50 POZ Class G + 2% gel + 1% CaCl <sub>2</sub> + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	861	25	14.3	1.56

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to 300' above base of surface casing. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole. Actual cement types may vary due to hole conditions and cement contractor used.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

**5. Drilling Fluids (mud) Program:**

Interval (MD)	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' - 2016' (KB)		No cntrl		Air/mist
2000'-3000' (KB)	8.4-8.6	No cntrl	28-36	Water
3000'-7470' (KB)	8.8-9.8	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

**6. Evaluation Program:**

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

Logging

- Dual Induction – SFL /Gamma Ray/Caliper/SP/TDLT/CNL/ML  
TD to Base Surface Casing
- Cement Bond Log / Gamma Ray:  
TD to Base of Surface Casing or Top of Cement if below Base of Surface Casing

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

**7. Abnormal Conditions:**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 3,884(calculated at 0.52 psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,241(anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

**8. Anticipated Starting Dates:**

- Anticipated Commencement Date- Within one year of APD issue.
- Drilling Days- Approximately 10 days
- Completion Days - Approximately 10 days
- Anticipate location construction within 30 days of permit issue.

**9. Variances:**

None anticipated

**10. Other:**

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining and the School and Institutional Trust lands Administration upon their receipt.

A measurement while drilling (MWD) system will be used to track and control the directional path of the wellbore.

**ENDURING RESOURCES**  
**Rock House 11-23-11-2 & Rock House 11-23-12-2**  
**Section 2, T11S, R23E, S.L.B.&M.**

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 40.5 MILES TO THE JUNCTION OF THE DRAGON ROAD (COUNTY B ROAD 4180). THIS ROAD IS LOCATED APPROXIMATELY 4.8 MILES SOUTH OF BONANZA, UTAH. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY B ROAD 4180 APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THE KINGS WELLS ROAD (COUNTY B ROAD 4190). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 4190 APPROXIMATELY 8.7 MILES TO THE JUNCTION OF THE ATCHEE RIDGE ROAD (COUNTY B ROAD 4270). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4.3 MILES TO THE JUNCTION OF THE LONG DRAW ROAD (COUNTY B ROAD 4260). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF COUNTY B ROAD 4160. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4160 APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THE BITTER CREEK ROAD (COUNTY B ROAD 4120). EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG COUNTY B ROAD 4120 APPROXIMATELY 1.9 MILES TO THE JUNCTION OF COUNTY B ROAD 4230. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4230 APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THE ATCHEES WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4240 APPROXIMATELY 6.6 MILES TO THE INTERSECTION OF A SERVICE ROAD. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 0.5 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 160 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 75.2 MILES IN A SOUTHEASTERLY DIRECTION.

# Enduring Resources, LLC

**Rock House 11-23-11-2**  
NW-NW 2-11S-23E (Bottom Hole Location)  
SW-NW 2-11S-23E (Surface Location)  
Uintah County, Utah  
State Lease: ML-47078

## MULTI-POINT SURFACE USE & OPERATIONS PLAN

***Two wells will be drilled from this well pad... Rock House 11-23-11-2 and Rock House 11-23-12-2.***

### 1. Existing Roads:

Directions to the SURFACE LOCATION of the Rock House 11-23-11-2 & Rock House 11-23-12-2, Section 2, T11S, R23E, S.L.B.&M.

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 40.5 MILES TO THE JUNCTION OF THE DRAGON ROAD (COUNTY B ROAD 4180). THIS ROAD IS LOCATED APPROXIMATELY 4.8 MILES SOUTH OF BONANZA, UTAH. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY B ROAD 4180 APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THE KINGS WELLS ROAD (COUNTY B ROAD 4190). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 4190 APPROXIMATELY 8.7 MILES TO THE JUNCTION OF THE ATCHEE RIDGE ROAD (COUNTY B ROAD 4270). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4.3 MILES TO THE JUNCTION OF THE LONG DRAW ROAD (COUNTY B ROAD 4260). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF COUNTY B ROAD 4160. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4160 APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THE BITTER CREEK ROAD (COUNTY B ROAD 4120). EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG COUNTY B ROAD 4120 APPROXIMATELY 1.9 MILES TO THE JUNCTION OF COUNTY B ROAD 4230. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4230 APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THE ATCHEES WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4240 APPROXIMATELY 6.6 MILES TO THE INTERSECTION OF A SERVICE ROAD. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 0.5 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 160 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 75.2 MILES IN A SOUTHEASTERLY DIRECTION.

## 2. Planned Access Roads:

The proposed access road will be approximately 160 feet of new construction all being on-lease. No new road construction off-lease will be needed.

The proposed access road will be utilized to transport personnel, equipment and supplies to and from the proposed well site during drilling, completion and production operations. The road will be utilized year round.

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-of-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. No fence crossings, culverts, turnouts, cattle guards or major cuts and fills are required. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away from the road.

**3. Location of Existing Wells within a One-Mile radius (See "Topo" Map "C" attached):**

The following wells are wells located within a one (1) mile or greater radius of the proposed location.

- a. None: Water Wells:
- b. None: Injection Wells:
- c. (3): Producing Wells:
  - i. LaPaglia 1, NESW Sec 3-11S-23E
  - ii. Rock House U-7, NENE Sec 10-11S-23E
  - iii. Rock House U-21, SENW Sec 11-11S-23E
- d. None: Drilling Wells:
- e. None: Shut-in Wells:
- f. None: Temporarily Abandoned Wells:
- g. None: Disposal Wells:
- h. (2): Abandoned Wells:
  - i. State 1 NWSW Sec 2-11S-23E
  - ii. State M 23-2 NESW Sec 2-11S-23E
- i. None: Dry Holes:
- j. None: Observation Wells:
- k. Various: Pending (staked) Wells:
  - i. Enduring has over 15 wells staked within one mile of this well's BHL.

**4. Location of Existing and/or Proposed Facilities:**

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Inter-Agency Committee

All facilities will be painted within 6 months of installation. The color shall be Dark Olive Black. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Gas Gathering Pipeline for each well drilled on with pad will be:

The proposed pipeline will begin at the well site; and be laid on the surface next to the new access road (northerly), and then the tie-in point shall into a proposed 4" surface pipeline that will remove gas from additional wells in this section. See plats.

The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.

Upon plugging and abandonment, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**5. Location and Type of Water Supply:**

Whenever practical, water will be obtained from Enduring Resources LLC Water Right Number 49-2215 or Water Right Number 49-2216 (\*See Townships of permitted Use below). If those sources are not available, a new water source shall be submitted prior to commencing operations. (These permits have one-year terms and then must be renewed)

\*Enduring Water Permits' Townships of Use:

T10S-R22E	T11S-R22E	T12S-R22E
T10S-R23E	<b>T11S-R23E</b>	T12S-R23E
T10S-R24E	T11S-R24E	T12S-R24E

Water will be hauled to the location over the roads marked on "Topo" Maps "A" and "B."

No water well is to be drilled on this lease.

**6 Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized fro location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break or allow discharge of liquids.

The reserve pit will be lined with ¼ felt and a minimum of 16 mm plastic with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the will be disposed of in the pit.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

#### **8. Ancillary Facilities:**

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crews' housing and eating facilities. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 4.

#### **9. Well Site Layout: (Refer to Sheets #2, #3, and #4)**

The attached Location Layout Diagrams described drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s).

Please see the attached diagram for rig orientation and access roads.

The top soil will be windrowed rather than piled. It will be reseeded and track walker at the time the location is constructed. Seeding will be with the determined during the onsite. (Refer to "Seed Mixture for Windrowed Top Soil Will included:" following herein.

The top soil removed from the pit area will be store separately and will not be reseeded until the pit is reclaimed.

All pits shall be fence to the following minimum standards:

- a. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- b. The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the new wire. Total height of the fence shall be at least 42 inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.
- e. All wire shall be stretched by, using a stretching device, before it is attached to corner posts.
- f. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
- g. Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling, the location will be re-surveyed and a Form 9 will be submitted.

#### 10. Plans for Surface Reclamation:

##### Producing Location:

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production, **or the drilling of the additional well from this same pad.**
- b. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40CFR 3162.7, **unless that pit is being used for the drilling of the additional well from this same pad.**
- c. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

- e. To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding round surface to allow the reclaimed pit area to drain effectively.
- f. Upon completion of back filling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

**Dry Hole/Abandoned Location:**

- i. Abandoned well sites, roads and other disturbed areas will be restored as nearly as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.
- ii. All disturbed surfaces will be re-contoured to the approximated natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**Seed Mixture for Windrowed Top Soil Will Included:**

To be provided by DOG&M and SITLA.

**11. Surface Ownership: Location, Access and Pipeline Route:**

Wellsite: SITLA

Access: SITLA and Bureau of Land Management

Pipeline: SITLA and Bureau of Land management

**12. Other Information****On-site Inspection for Location, Access and Pipeline Route:**

To be scheduled by DOG&M.

**Special Conditions of Approval:**

- Tanks and Production Equipment shall be painted Dark Olive Black.
- Surface Gathering Pipeline shall be 4" or less.

**Archeology:**

- a. A Cultural Resource Inventory Report is pending and to be prepared by Montgomery Archaeological Consultants.

**Paleontology:**

- a. A Paleontology Reconnaissance Report is pending and to be prepared by Intermountain Paleo-Consulting.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

**13, Lessee's or Operator's Representatives:**

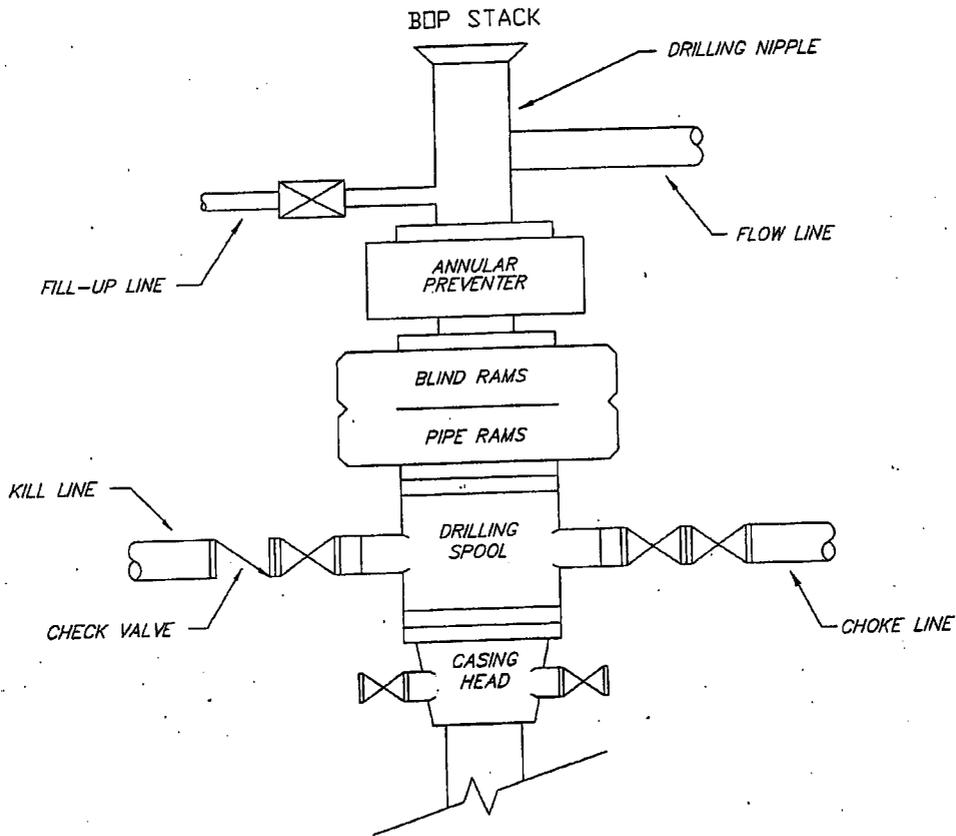
**Representatives:**

Alvin R. (Al) Arlian  
Landman – Regulatory Specialist  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-350-5114  
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[aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)

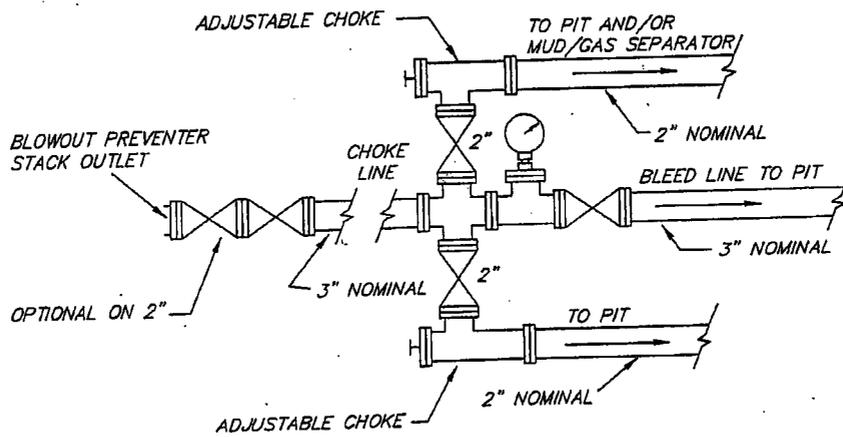
Teme Singleton  
Drilling Engineer  
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# ENDURING RESOURCES, LLC

## TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER SCHEMATIC



## TYPICAL 3,000 p.s.i. CHOKING MANIFOLD SCHEMATIC





**ENDURING RESOURCES**  
**Rock House 11-23-11-2**  
**SW/NW, Sec. 2, T11S, R23E**  
**Uintah County, Utah**



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	348.19	0.00	0.00	0.00	0.00	0.00	0.00	
2	2072.00	0.00	348.19	2072.00	0.00	0.00	0.00	0.00	0.00	KOP
3	3046.91	39.00	348.19	2973.36	312.40	-65.32	4.00	348.19	319.16	End Build
4	3386.62	39.00	348.19	3237.38	521.64	-109.07	0.00	0.00	532.93	Start Drop
5	4686.50	0.00	348.19	4439.20	938.18	-196.17	3.00	180.00	958.47	End Drop
6	7717.30	0.00	348.19	7470.00	938.18	-196.17	0.00	348.19	958.47	TD

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rock House 11-23-11-2	0.00	0.00	7136928.94	2252895.39	39°53'31.740N	109°19'00.690W	N/A

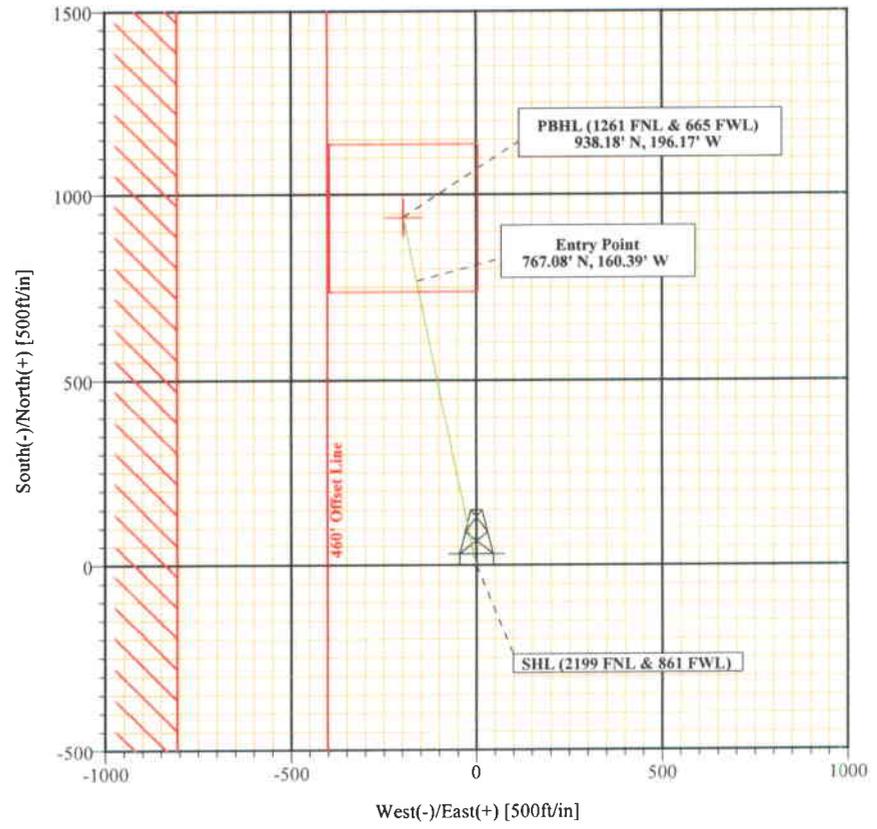
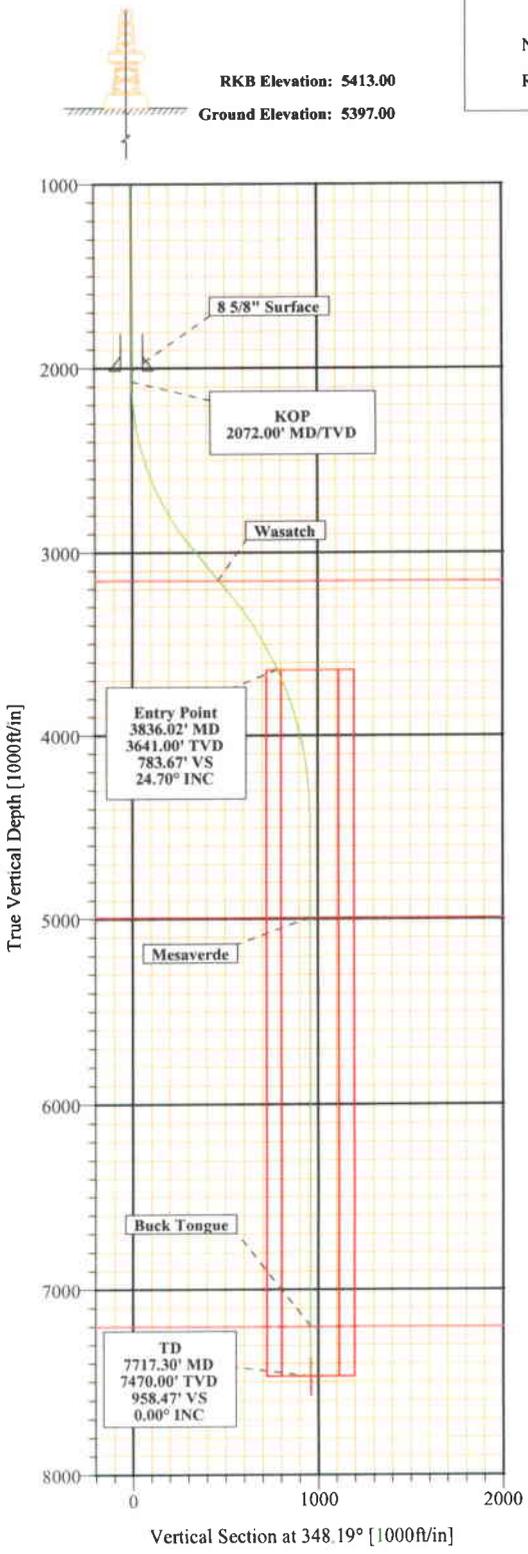
**FIELD DETAILS**  
 Uintah, Utah  
 Utah Central Zone  
 U.S.A.  
 Geodetic System: US State Plane Coordinate System 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah, Central Zone  
 Magnetic Model: igrf2005  
 System Datum: Mean Sea Level  
 Local North: True North

**SITE DETAILS**  
 SW/NW 2-11S-23E  
 Sec. 2, T11S, R23E, Uintah County, Utah  
 2199 FNL & 861 FWL  
 Site Centre Latitude: 39°53'31.740N  
 Longitude: 109°19'00.690W  
 Ground Level: 5397.00  
 Positional Uncertainty: 0.00

TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Shape	
11-23-11-2 Target	7470.00	938.18	-196.17	Rectangle (400x400)	

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2012.00	2012.00	8 5/8" Surface	8.625

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	233.00	233.00	Green River
2	3153.00	3278.05	Wasatch
3	4993.00	5240.30	Mesaverde
4	7200.00	7447.30	Buck Tongue



# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 4/25/2006	<b>Time:</b> 13:07:38	<b>Page:</b> 1
<b>Field:</b> Uintah, Utah	<b>Co-ordinate(NE) Reference:</b> Well: Rock House 11-23-11-2, True North		
<b>Site:</b> SW/NW 2-11S-23E	<b>Vertical (TVD) Reference:</b> SITE 5413.0		
<b>Well:</b> Rock House 11-23-11-2	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,348.19Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b> Plan #1		

<b>Field:</b> Uintah, Utah Utah Central Zone U.S.A.	<b>Map Zone:</b> Utah, Central Zone
<b>Map System:</b> US State Plane Coordinate System 1983	<b>Coordinate System:</b> Well Centre
<b>Geo Datum:</b> GRS 1980	<b>Geomagnetic Model:</b> igrf2005
<b>Sys Datum:</b> Mean Sea Level	

**Site:** SW/NW 2-11S-23E  
Sec. 2, T11S, R23E, Uintah County, Utah  
2199 FNL & 861 FWL

<b>Site Position:</b>	<b>Northing:</b> 7136928.94 ft	<b>Latitude:</b> 39 53 31.740 N	
<b>From:</b> Geographic	<b>Easting:</b> 2252895.39 ft	<b>Longitude:</b> 109 19 0.690 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True	
<b>Ground Level:</b> 5397.00 ft			

<b>Well:</b> Rock House 11-23-11-2	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 7136928.94 ft
+E/-W 0.00 ft	<b>Easting:</b> 2252895.39 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 39 53 31.740 N
	<b>Longitude:</b> 109 19 0.690 W

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface	<b>Tie-on Depth:</b> 0.00 ft	
<b>Current Datum:</b> SITE	<b>Height:</b> 5413.00 ft	<b>Above System Datum:</b> Mean Sea Level	
<b>Magnetic Data:</b> 4/25/2006		<b>Declination:</b> 11.63 deg	
<b>Field Strength:</b> 52864 nT		<b>Mag Dip Angle:</b> 65.95 deg	
<b>Vertical Section:</b> Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
7470.00	0.00	0.00	348.19

<b>Plan:</b> Plan #1	<b>Date Composed:</b> 4/25/2006
<b>Principal:</b> Yes	<b>Version:</b> 1
	<b>Tied-to:</b> From Surface

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	348.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2072.00	0.00	348.19	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	
3046.91	39.00	348.19	2973.36	312.40	-65.32	4.00	4.00	0.00	348.19	
3386.62	39.00	348.19	3237.38	521.64	-109.07	0.00	0.00	0.00	0.00	
4686.50	0.00	348.19	4439.20	938.18	-196.17	3.00	-3.00	0.00	180.00	
7717.30	0.00	348.19	7470.00	938.18	-196.17	0.00	0.00	0.00	348.19	11-23-11-2 Target

**Section 1 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	348.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	348.19	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	348.19
2012.00	0.00	348.19	2012.00	0.00	0.00	0.00	0.00	0.00	0.00	348.19
2072.00	0.00	348.19	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	348.19

**Section 2 : Start Build 4.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2100.00	1.12	348.19	2100.00	0.27	-0.06	0.27	4.00	4.00	0.00	0.00
2200.00	5.12	348.19	2199.83	5.59	-1.17	5.72	4.00	4.00	0.00	0.00
2300.00	9.12	348.19	2299.04	17.72	-3.71	18.11	4.00	4.00	0.00	0.00
2400.00	13.12	348.19	2397.14	36.60	-7.65	37.39	4.00	4.00	0.00	0.00
2500.00	17.12	348.19	2493.66	62.13	-12.99	63.47	4.00	4.00	0.00	0.00
2600.00	21.12	348.19	2588.12	94.18	-19.69	96.22	4.00	4.00	0.00	0.00
2700.00	25.12	348.19	2680.07	132.61	-27.73	135.47	4.00	4.00	0.00	0.00
2800.00	29.12	348.19	2769.06	177.22	-37.06	181.05	4.00	4.00	0.00	0.00
2900.00	33.12	348.19	2854.65	227.80	-47.63	232.72	4.00	4.00	0.00	0.00

# Weatherford International Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** SW/NW 2-11S-23E  
**Well:** Rock House 11-23-11-2  
**Wellpath:** 1

**Date:** 4/25/2006 **Time:** 13:07:38 **Page:** 2  
**Co-ordinate(NE) Reference:** Well: Rock House 11-23-11-2, True North  
**Vertical (TVD) Reference:** SITE 5413.0  
**Section (VS) Reference:** Well (0.00N,0.00E,348.19Azi)  
**Plan:** Plan #1

**Section 2 : Start Build 4.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3000.00	37.12	348.19	2936.43	284.10	-59.40	290.24	4.00	4.00	0.00	0.00
3046.91	39.00	348.19	2973.36	312.40	-65.32	319.16	4.00	4.00	0.00	0.00

**Section 3 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3100.00	39.00	348.19	3014.63	345.10	-72.16	352.57	0.00	0.00	0.00	0.00
3200.00	39.00	348.19	3092.34	406.70	-85.04	415.49	0.00	0.00	0.00	0.00
3278.05	39.00	348.19	3153.00	454.77	-95.09	464.60	0.00	0.00	0.00	0.00
3300.00	39.00	348.19	3170.06	468.29	-97.92	478.42	0.00	0.00	0.00	0.00
3386.62	39.00	348.19	3237.38	521.64	-109.07	532.93	0.00	0.00	0.00	0.00

**Section 4 : Start Drop -3.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3400.00	38.59	348.19	3247.81	529.85	-110.79	541.31	3.00	-3.00	0.00	180.00
3500.00	35.59	348.19	3327.57	588.88	-123.13	601.62	3.00	-3.00	0.00	180.00
3600.00	32.59	348.19	3410.37	643.75	-134.60	657.67	3.00	-3.00	0.00	180.00
3700.00	29.59	348.19	3495.99	694.29	-145.17	709.31	3.00	-3.00	0.00	180.00
3800.00	26.59	348.19	3584.20	740.38	-154.81	756.40	3.00	-3.00	0.00	180.00
3863.02	24.70	348.19	3641.00	767.08	-160.39	783.67	3.00	-3.00	0.00	-180.00
3900.00	23.59	348.19	3674.75	781.89	-163.49	798.80	3.00	-3.00	0.00	180.00
4000.00	20.59	348.19	3767.39	818.71	-171.19	836.41	3.00	-3.00	0.00	180.00
4100.00	17.59	348.19	3861.88	850.72	-177.88	869.12	3.00	-3.00	0.00	180.00
4200.00	14.59	348.19	3957.95	877.86	-183.55	896.84	3.00	-3.00	0.00	180.00
4300.00	11.59	348.19	4055.34	900.03	-188.19	919.50	3.00	-3.00	0.00	180.00
4400.00	8.59	348.19	4153.78	917.19	-191.78	937.02	3.00	-3.00	0.00	180.00
4500.00	5.59	348.19	4253.00	929.28	-194.30	949.37	3.00	-3.00	0.00	180.00
4600.00	2.59	348.19	4352.73	936.26	-195.77	956.51	3.00	-3.00	0.00	180.00
4686.50	0.00	348.19	4439.20	938.18	-196.17	958.47	3.00	-3.00	0.00	-180.00

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4700.00	0.00	348.19	4452.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
4800.00	0.00	348.19	4552.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
4900.00	0.00	348.19	4652.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5000.00	0.00	348.19	4752.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5100.00	0.00	348.19	4852.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5200.00	0.00	348.19	4952.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5240.30	0.00	348.19	4993.00	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5300.00	0.00	348.19	5052.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5400.00	0.00	348.19	5152.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5500.00	0.00	348.19	5252.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5600.00	0.00	348.19	5352.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5700.00	0.00	348.19	5452.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5800.00	0.00	348.19	5552.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
5900.00	0.00	348.19	5652.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6000.00	0.00	348.19	5752.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6100.00	0.00	348.19	5852.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6200.00	0.00	348.19	5952.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6300.00	0.00	348.19	6052.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6400.00	0.00	348.19	6152.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6500.00	0.00	348.19	6252.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6600.00	0.00	348.19	6352.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6700.00	0.00	348.19	6452.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6800.00	0.00	348.19	6552.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
6900.00	0.00	348.19	6652.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7000.00	0.00	348.19	6752.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7100.00	0.00	348.19	6852.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7200.00	0.00	348.19	6952.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19

# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 4/25/2006	<b>Time:</b> 13:07:38	<b>Page:</b> 3
<b>Field:</b> Uintah, Utah	<b>Co-ordinate(NE) Reference:</b> Well: Rock House 11-23-11-2, True North		
<b>Site:</b> SW/NW 2-11S-23E	<b>Vertical (TVD) Reference:</b> SITE 5413.0		
<b>Well:</b> Rock House 11-23-11-2	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,348.19Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b> Plan #1		

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
7300.00	0.00	348.19	7052.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7400.00	0.00	348.19	7152.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7447.30	0.00	348.19	7200.00	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7500.00	0.00	348.19	7252.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7600.00	0.00	348.19	7352.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7700.00	0.00	348.19	7452.70	938.18	-196.17	958.47	0.00	0.00	0.00	348.19
7717.30	0.00	348.19	7470.00	938.18	-196.17	958.47	0.00	0.00	0.00	348.19

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2000.00	0.00	348.19	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
2012.00	0.00	348.19	2012.00	0.00	0.00	0.00	0.00	0.00	0.00	8 5/8" Surface
2072.00	0.00	348.19	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
2100.00	1.12	348.19	2100.00	0.27	-0.06	0.27	4.00	4.00	0.00	MWD
2200.00	5.12	348.19	2199.83	5.59	-1.17	5.72	4.00	4.00	0.00	MWD
2300.00	9.12	348.19	2299.04	17.72	-3.71	18.11	4.00	4.00	0.00	MWD
2400.00	13.12	348.19	2397.14	36.60	-7.65	37.39	4.00	4.00	0.00	MWD
2500.00	17.12	348.19	2493.66	62.13	-12.99	63.47	4.00	4.00	0.00	MWD
2600.00	21.12	348.19	2588.12	94.18	-19.69	96.22	4.00	4.00	0.00	MWD
2700.00	25.12	348.19	2680.07	132.61	-27.73	135.47	4.00	4.00	0.00	MWD
2800.00	29.12	348.19	2769.06	177.22	-37.06	181.05	4.00	4.00	0.00	MWD
2900.00	33.12	348.19	2854.65	227.80	-47.63	232.72	4.00	4.00	0.00	MWD
3000.00	37.12	348.19	2936.43	284.10	-59.40	290.24	4.00	4.00	0.00	MWD
3046.91	39.00	348.19	2973.36	312.40	-65.32	319.16	4.00	4.00	0.00	End Build
3100.00	39.00	348.19	3014.63	345.10	-72.16	352.57	0.00	0.00	0.00	MWD
3200.00	39.00	348.19	3092.34	406.70	-85.04	415.49	0.00	0.00	0.00	MWD
3278.05	39.00	348.19	3153.00	454.77	-95.09	464.60	0.00	0.00	0.00	Wasatch
3300.00	39.00	348.19	3170.06	468.29	-97.92	478.42	0.00	0.00	0.00	MWD
3386.62	39.00	348.19	3237.38	521.64	-109.07	532.93	0.00	0.00	0.00	Start Drop
3400.00	38.59	348.19	3247.81	529.85	-110.79	541.31	3.00	-3.00	0.00	MWD
3500.00	35.59	348.19	3327.57	588.88	-123.13	601.62	3.00	-3.00	0.00	MWD
3600.00	32.59	348.19	3410.37	643.75	-134.60	657.67	3.00	-3.00	0.00	MWD
3700.00	29.59	348.19	3495.99	694.29	-145.17	709.31	3.00	-3.00	0.00	MWD
3800.00	26.59	348.19	3584.20	740.38	-154.81	756.40	3.00	-3.00	0.00	MWD
3863.02	24.70	348.19	3641.00	767.08	-160.39	783.67	3.00	-3.00	0.00	Entry Point
3900.00	23.59	348.19	3674.75	781.89	-163.49	798.80	3.00	-3.00	0.00	MWD
4000.00	20.59	348.19	3767.39	818.71	-171.19	836.41	3.00	-3.00	0.00	MWD
4100.00	17.59	348.19	3861.88	850.72	-177.88	869.12	3.00	-3.00	0.00	MWD
4200.00	14.59	348.19	3957.95	877.86	-183.55	896.84	3.00	-3.00	0.00	MWD
4300.00	11.59	348.19	4055.34	900.03	-188.19	919.50	3.00	-3.00	0.00	MWD
4400.00	8.59	348.19	4153.78	917.19	-191.78	937.02	3.00	-3.00	0.00	MWD
4500.00	5.59	348.19	4253.00	929.28	-194.30	949.37	3.00	-3.00	0.00	MWD
4600.00	2.59	348.19	4352.73	936.26	-195.77	956.51	3.00	-3.00	0.00	MWD
4686.50	0.00	348.19	4439.20	938.18	-196.17	958.47	3.00	-3.00	0.00	End Drop
4700.00	0.00	348.19	4452.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
4800.00	0.00	348.19	4552.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
4900.00	0.00	348.19	4652.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5000.00	0.00	348.19	4752.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5100.00	0.00	348.19	4852.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5200.00	0.00	348.19	4952.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5240.30	0.00	348.19	4993.00	938.18	-196.17	958.47	0.00	0.00	0.00	Mesaverde
5300.00	0.00	348.19	5052.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5400.00	0.00	348.19	5152.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5500.00	0.00	348.19	5252.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD

# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 4/25/2006	<b>Time:</b> 13:07:38	<b>Page:</b> 4
<b>Field:</b> Uintah, Utah	<b>Co-ordinate(NE) Reference:</b> Well: Rock House 11-23-11-2, True North		
<b>Site:</b> SW/NW 2-11S-23E	<b>Vertical (TVD) Reference:</b> SITE 5413.0		
<b>Well:</b> Rock House 11-23-11-2	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,348.19Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b> Plan #1		

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5600.00	0.00	348.19	5352.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5700.00	0.00	348.19	5452.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5800.00	0.00	348.19	5552.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
5900.00	0.00	348.19	5652.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6000.00	0.00	348.19	5752.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6100.00	0.00	348.19	5852.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6200.00	0.00	348.19	5952.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6300.00	0.00	348.19	6052.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6400.00	0.00	348.19	6152.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6500.00	0.00	348.19	6252.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6600.00	0.00	348.19	6352.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6700.00	0.00	348.19	6452.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6800.00	0.00	348.19	6552.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
6900.00	0.00	348.19	6652.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7000.00	0.00	348.19	6752.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7100.00	0.00	348.19	6852.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7200.00	0.00	348.19	6952.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7300.00	0.00	348.19	7052.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7400.00	0.00	348.19	7152.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7447.30	0.00	348.19	7200.00	938.18	-196.17	958.47	0.00	0.00	0.00	Buck Tongue
7500.00	0.00	348.19	7252.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7600.00	0.00	348.19	7352.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7700.00	0.00	348.19	7452.70	938.18	-196.17	958.47	0.00	0.00	0.00	MWD
7717.30	0.00	348.19	7470.00	938.18	-196.17	958.47	0.00	0.00	0.00	TD

### Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →				
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec		
11-23-11-2 Target -Rectangle (400x400) -Plan hit target			7470.00	938.18	-196.17	7137862.05	2252676.38	39	53	41.012	N	109	19	3.207	W

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2012.00	2012.00	8.625	12.250	8 5/8" Surface

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
233.00	233.00	Green River		0.00	0.00
3278.05	3153.00	Wasatch		0.00	0.00
5240.30	4993.00	Mesaverde		0.00	0.00
7447.30	7200.00	Buck Tongue		0.00	0.00

### Annotation

MD ft	TVD ft	
2072.00	2072.00	SHL (2199 FNL & 861 FWL)
3046.91	2973.36	KOP
3386.62	3237.38	End Build
3863.02	3641.00	Start Drop
		Entry Point

# Weatherford International Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** SW/NW 2-11S-23E  
**Well:** Rock House 11-23-11-2  
**Wellpath:** 1

**Date:** 4/25/2006  
**Co-ordinate(NE) Reference:** Well: Rock House 11-23-11-2, True North  
**Vertical (TVD) Reference:** SITE 5413.0  
**Section (VS) Reference:** Well (0.00N,0.00E,348.19Azi)  
**Plan:** Plan #1

**Page:** 5

## Annotation

MD ft	TVD ft	
4686.50	4439.20	End Drop
7717.30	7470.00	TD

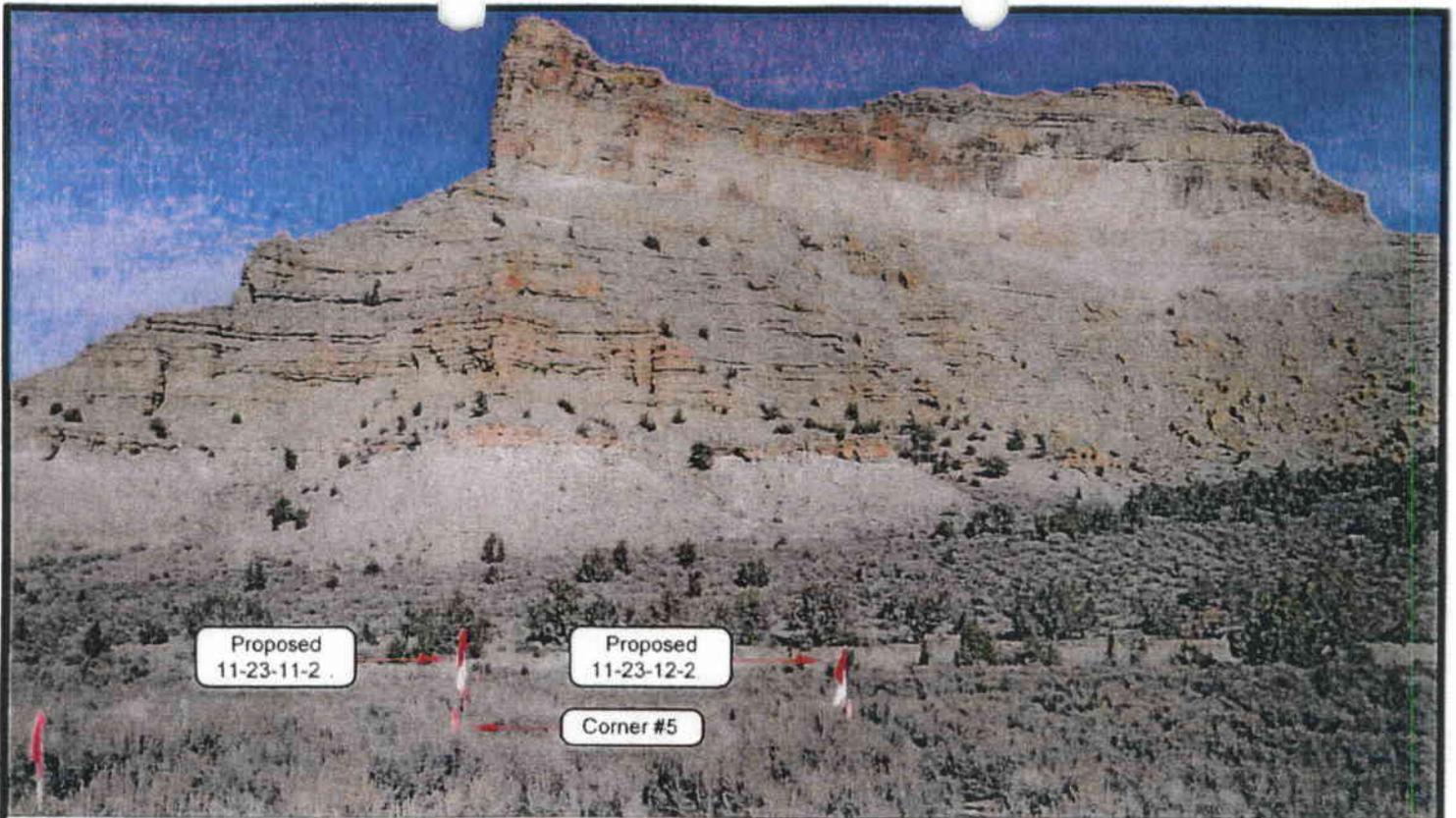


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

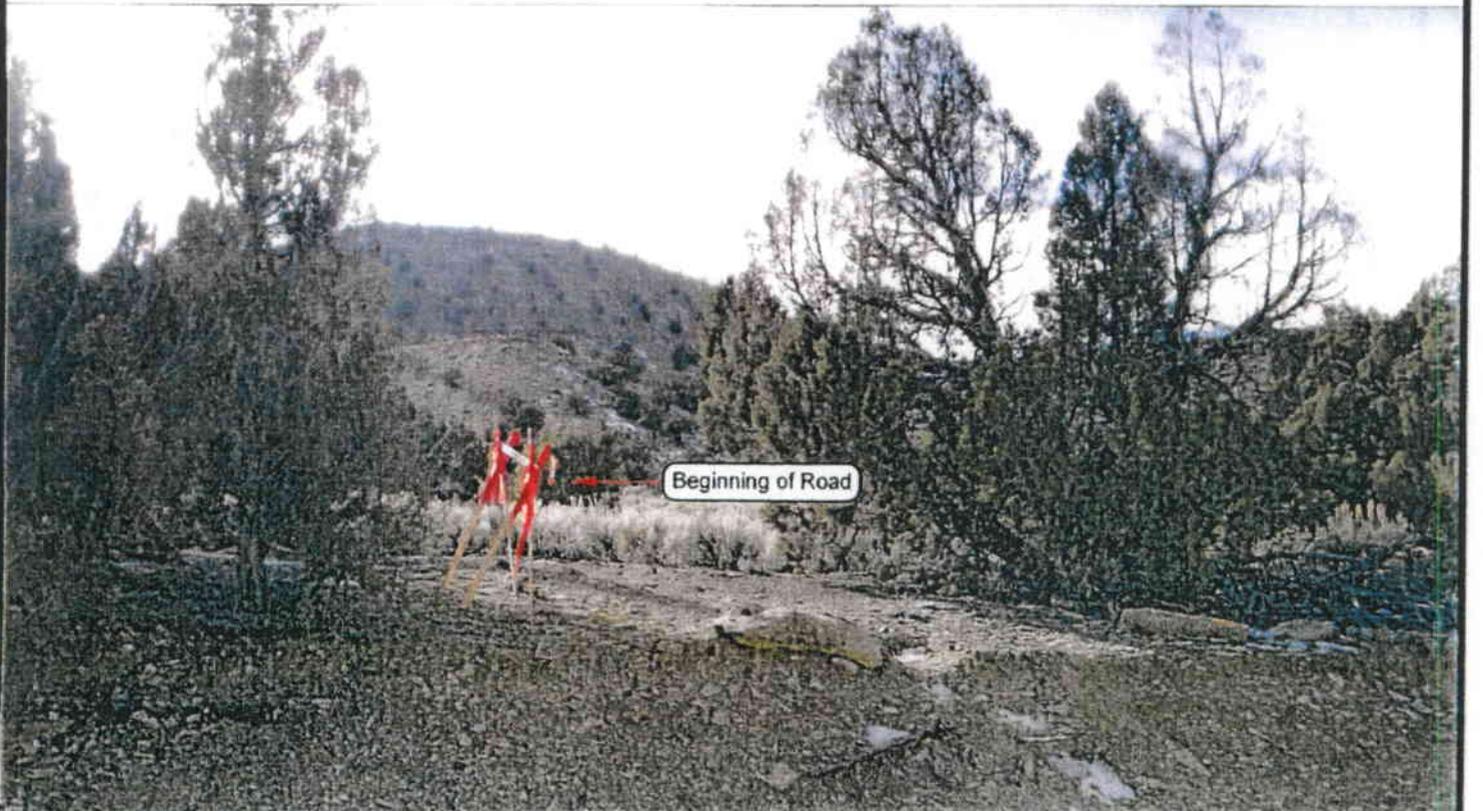


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

**ENDURING RESOURCES**

**ROCK HOUSE 11-23-11-2 &  
ROCK HOUSE 11-23-12-2  
SECTION 2, T11S, R23E, S.L.B.&M.**

**LOCATION PHOTOS**

TAKEN BY GJS

DRAWN BY BJS

DATE TAKEN: 12-19-05

DATE DRAWN: 01-13-06

REVISED

**Timberline Land Surveying, Inc.**

36 West 100 North Vernal Utah 84078  
(435) 789-1365

**SHEET  
1  
OF 11**

# ENDURING RESOURCES

## WELL PAD INTERFERENCE PLAT ROCK HOUSE 11-23-11-2 & ROCK HOUSE 11-23-12-2



**SURFACE POSITION FOOTAGES:**

ROCK HOUSE 11-23-11-2  
2199' FNL & 861' FWL

ROCK HOUSE 11-23-12-2  
2204' FNL & 886' FWL

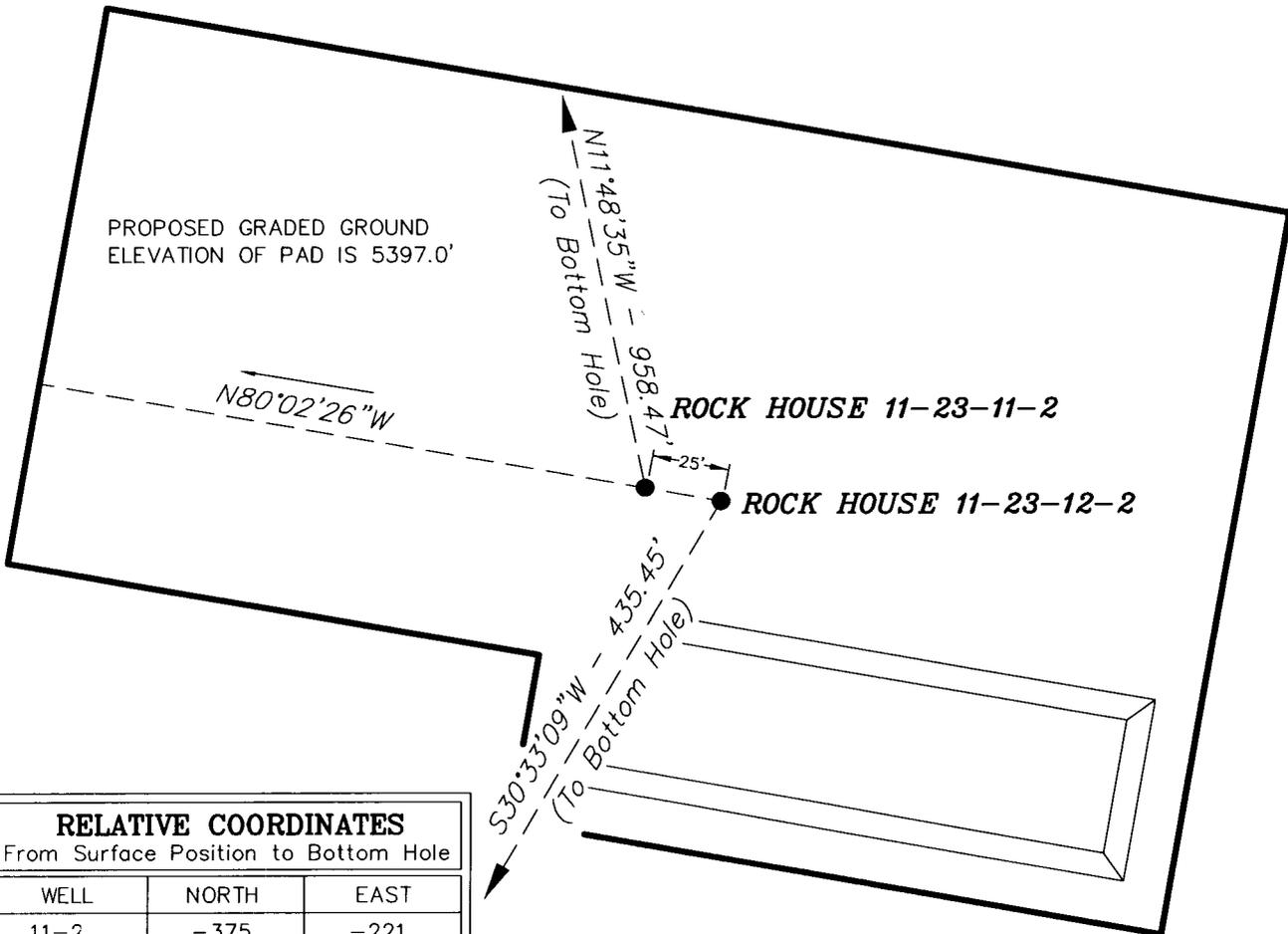
**BOTTOM HOLE FOOTAGES**

ROCK HOUSE 11-23-11-2  
1261' FNL & 665' FWL

ROCK HOUSE 11-23-12-2  
2578' FNL & 664' FWL

Basis of elevation is triangulation station JEK 19 ET 1966 which is located near the South 1/4 corner of Section 8, T11S, R23E, S.L.B.&M. The elevation of this triangulation station is marked on the Archy Bench SE 7.5 min. Quadrangle as being 6054'.

Basis of Bearings is the East line of the Southeast quarter of Section 2, T11S, R23E, S.L.B.&M. which bears N00°01'13"E



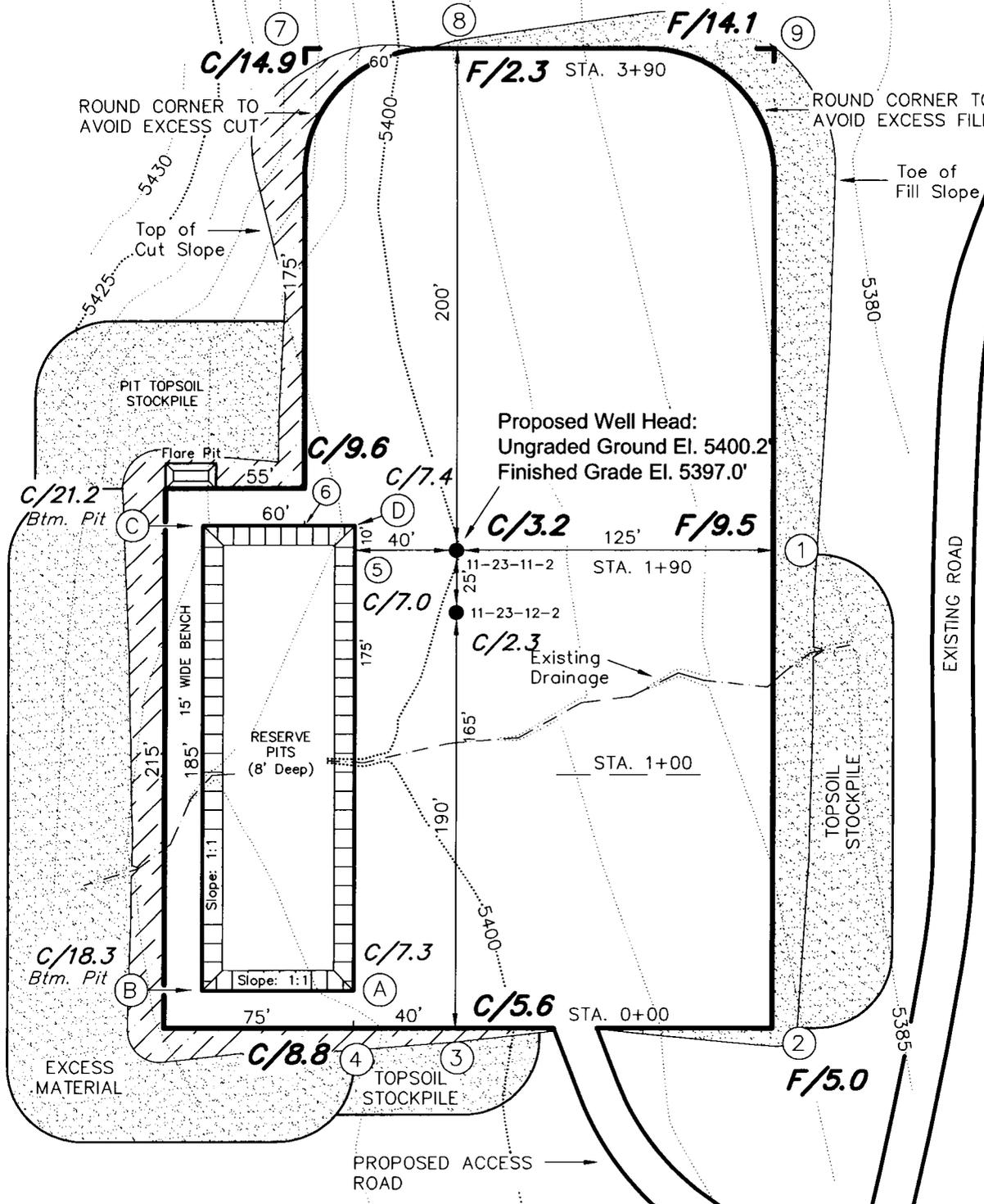
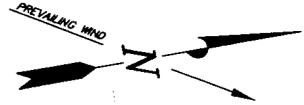
RELATIVE COORDINATES		
From Surface Position to Bottom Hole		
WELL	NORTH	EAST
11-2	-375	-221
12-2	938	-196

LATITUDE & LONGITUDE		
Surface Position - (NAD 83) Autonomous		
WELL	N. LATITUDE	W. LONGITUDE
11-2	39°53'31.74"	109°19'00.69"
12-2	39°53'31.70"	109°19'00.38"

LATITUDE & LONGITUDE		
Bottom Hole - (NAD 83) Autonomous		
WELL	N. LATITUDE	W. LONGITUDE
11-2	39°53'41.01"	109°19'03.20"
12-2	39°53'28.00"	109°19'03.22"

# ENDURING RESOURCES

## CUT SHEET - ROCK HOUSE 11-23-11-2 & ROCK HOUSE 11-23-12-2

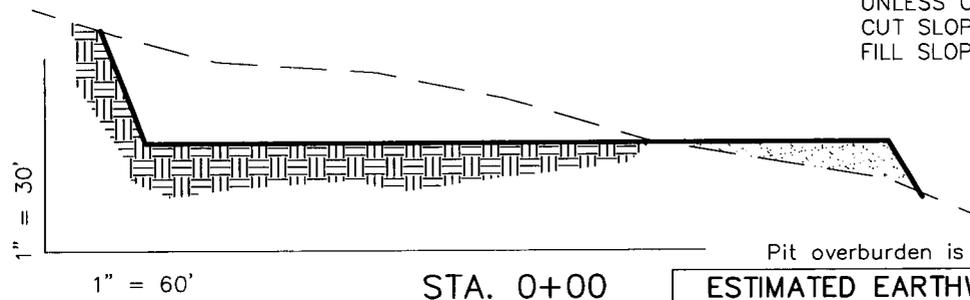
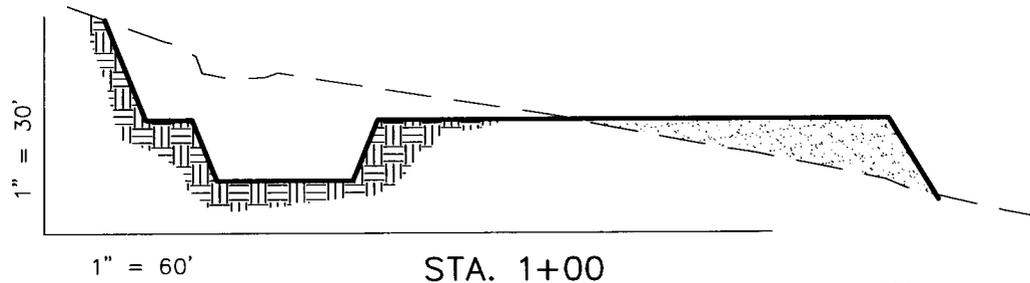
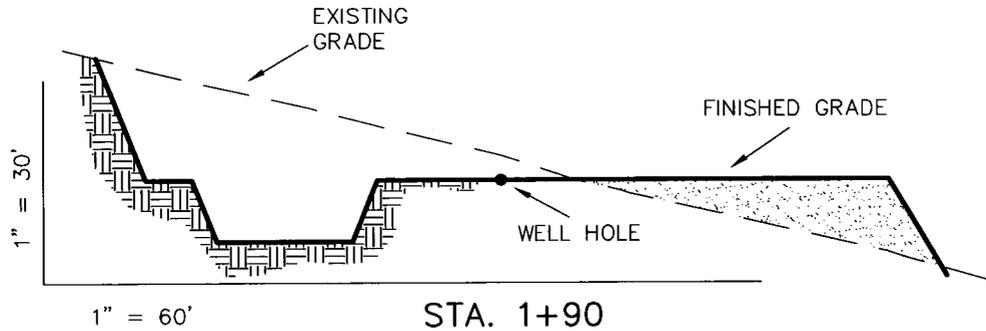
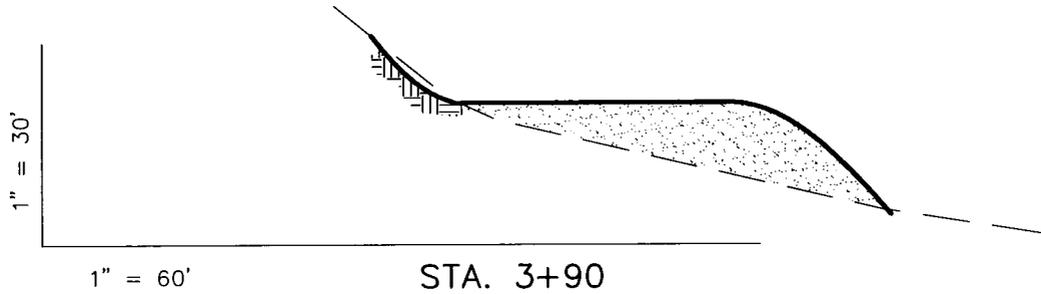


CONTOUR INTERVAL = 5'

Section 2, T11S, R23E, S.L.B.&M.		Qtr/Qtr Location: SW NW	Footage Location: 2204' FNL & 886' FWL
Date Surveyed: 12-19-05	Date Drawn: 01-09-06	Date Last Revision:	<b>Timberline</b> (435) 789-1365 <i>Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078
Surveyed By: D.J.S.	Drawn By: B.J.S.	Scale: 1" = 60'	
			SHEET <b>4</b> OF 11

# ENDURING RESOURCES

## CROSS SECTIONS – ROCK HOUSE 11-23-11-2 & ROCK HOUSE 11-23-12-2



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

Pit overburden is included in pad cut.

### REFERENCE POINTS

175' NORTH = 5383.6'  
225' NORTH = 5383.9'  
240' EAST = 5401.8'  
290' EAST = 5402.8'

### ESTIMATED EARTHWORK QUANTITIES (No shrink or swell adjustments have been used) (Expressed in Cubic Yards)

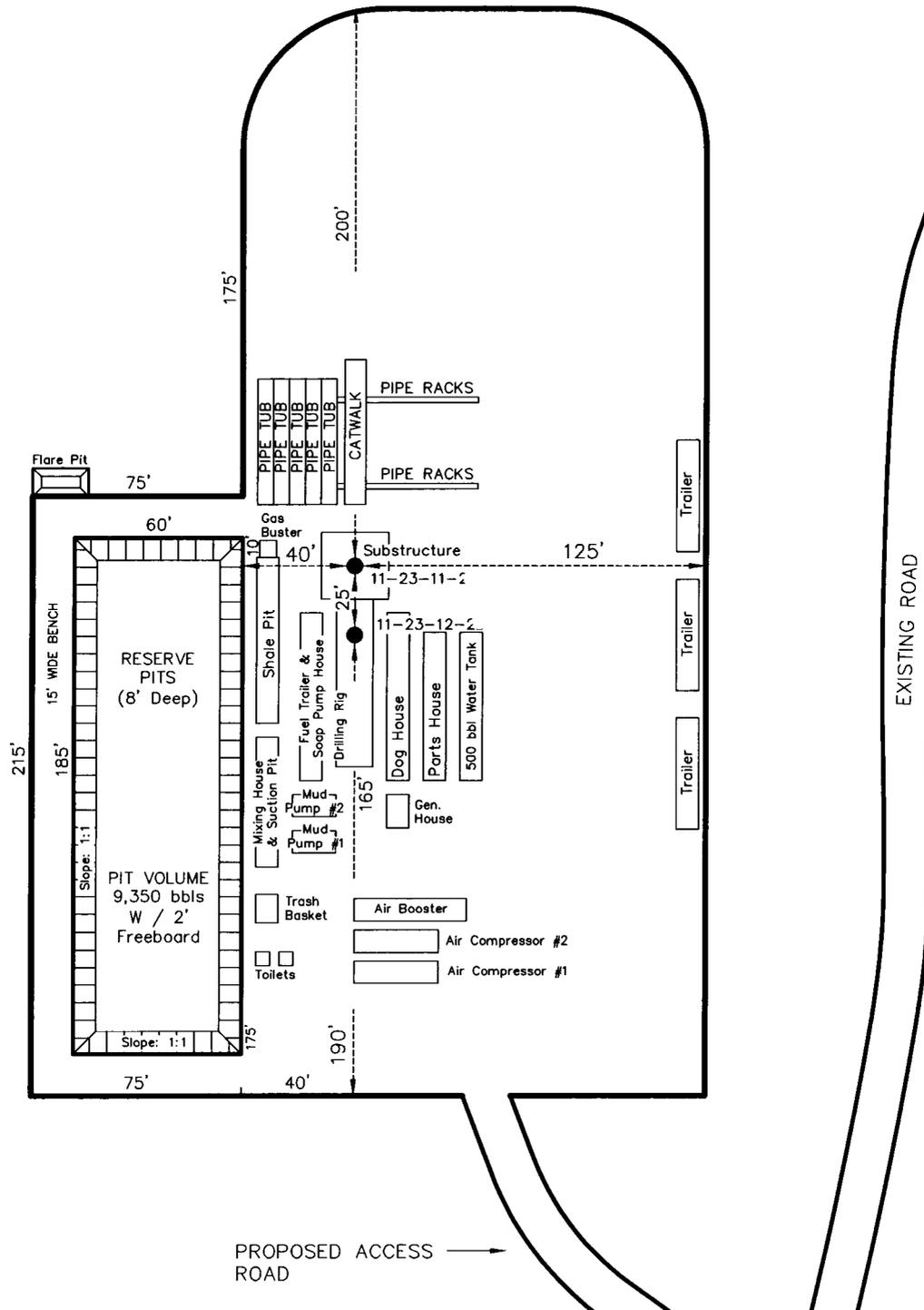
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	9,290	10,650	Topsoil is not included in Pad Cut	-1,360
PIT	2,730	0		2,730
TOTALS	12,020	10,650	1,560	1,370

Excess Material after Pit Rehabilitation = 0 Cu. Yds.

Section 2, T11S, R23E, S.L.B.&M.		Qtr/Qtr Location: SW NW	Footage Location: 2204' FNL & 886' FWL
Date Surveyed: 12-19-05	Date Drawn: 01-09-06	Date Last Revision:	<b>Timberline</b> (435) 789-1365 Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078
Surveyed By: D.J.S.	Drawn By: B.J.S.	Scale: 1" = 60'	

# ENDURING RESOURCES

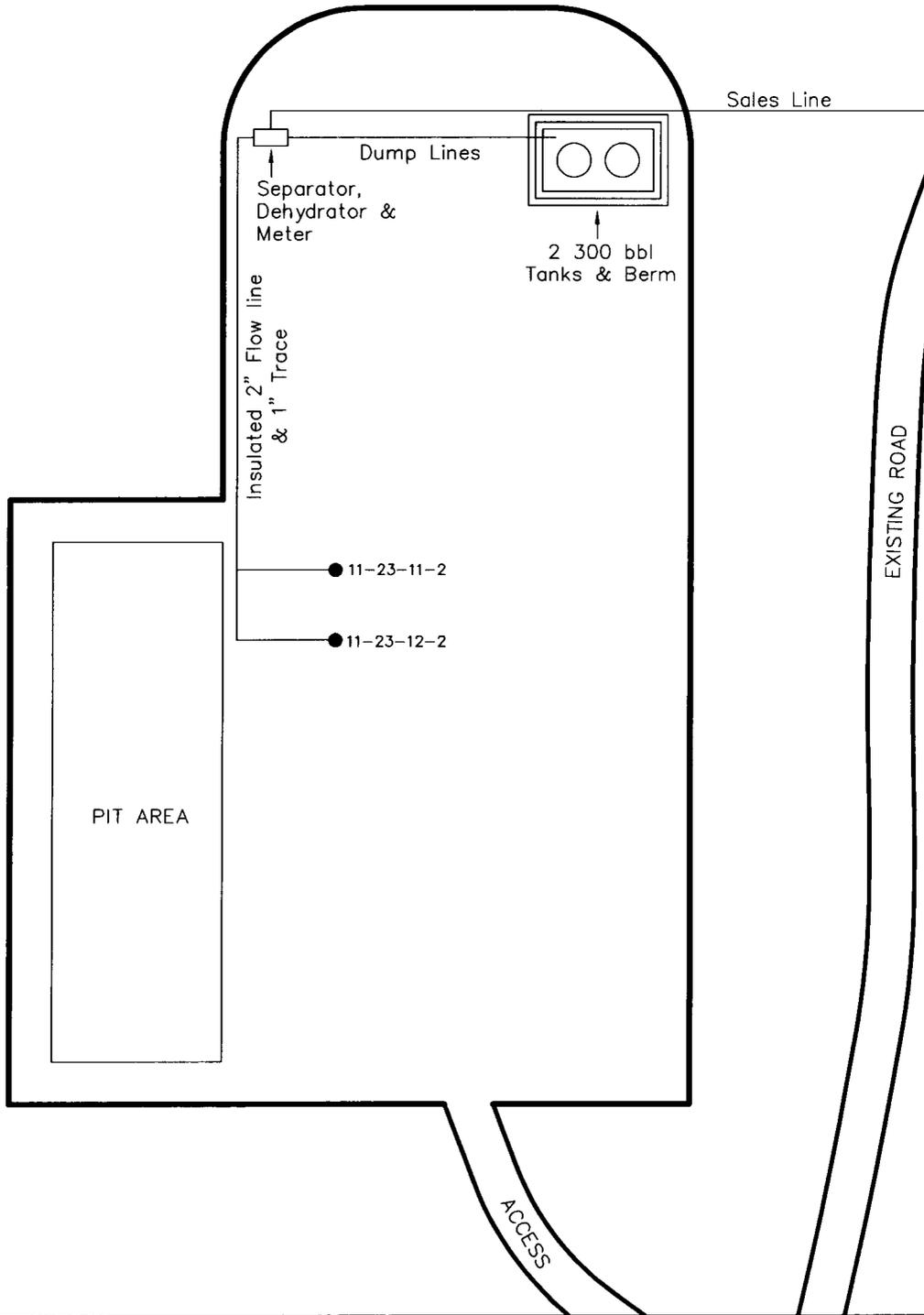
## TYPICAL RIG LAYOUT – ROCK HOUSE 11-23-11-2 & ROCK HOUSE 11-23-12-2



Section 2, T11S, R23E, S.L.B.&M.		Qtr/Qtr Location: SW NW	Footage Location: 2204' FNL & 886' FWL
Date Surveyed: 12-19-05	Date Drawn: 01-09-06	Date Last Revision:	<b>Timberline</b> (435) 789-1365 <i>Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078
Surveyed By: D.J.S.	Drawn By: B.J.S.	Scale: 1" = 60'	
			SHEET <span style="font-size: 2em;">6</span> OF 11

# ENDURING RESOURCES

## TYPICAL PRODUCTION LAYOUT – ROCK HOUSE 11-23-11-2 & ROCK HOUSE 11-23-12-2



Section 2, T11S, R23E, S.L.B.&M.		Qtr/Qtr Location: SW NW	Footage Location: 2204' FNL & 886' FWL
Date Surveyed: 12-19-05	Date Drawn: 01-09-06	Date Last Revision:	<b>Timberline</b> (435) 789-1365 <i>Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078
Surveyed By: D.J.S.	Drawn By: B.J.S.	Scale: 1" = 60'	
			SHEET <b>7</b> OF 11



**LEGEND**

- PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = OTHER WELLS
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)
- (B-5460) = COUNTY ROAD CLASS & NUMBER

**TOPOGRAPHIC MAP "A"**

DATE SURVEYED: 12-19-05  
 DATE DRAWN: 01-13-06  
 REVISED: 05-11-06 M.W.W.

SCALE: 1"=10,000'

DRAWN BY: B.J.S.

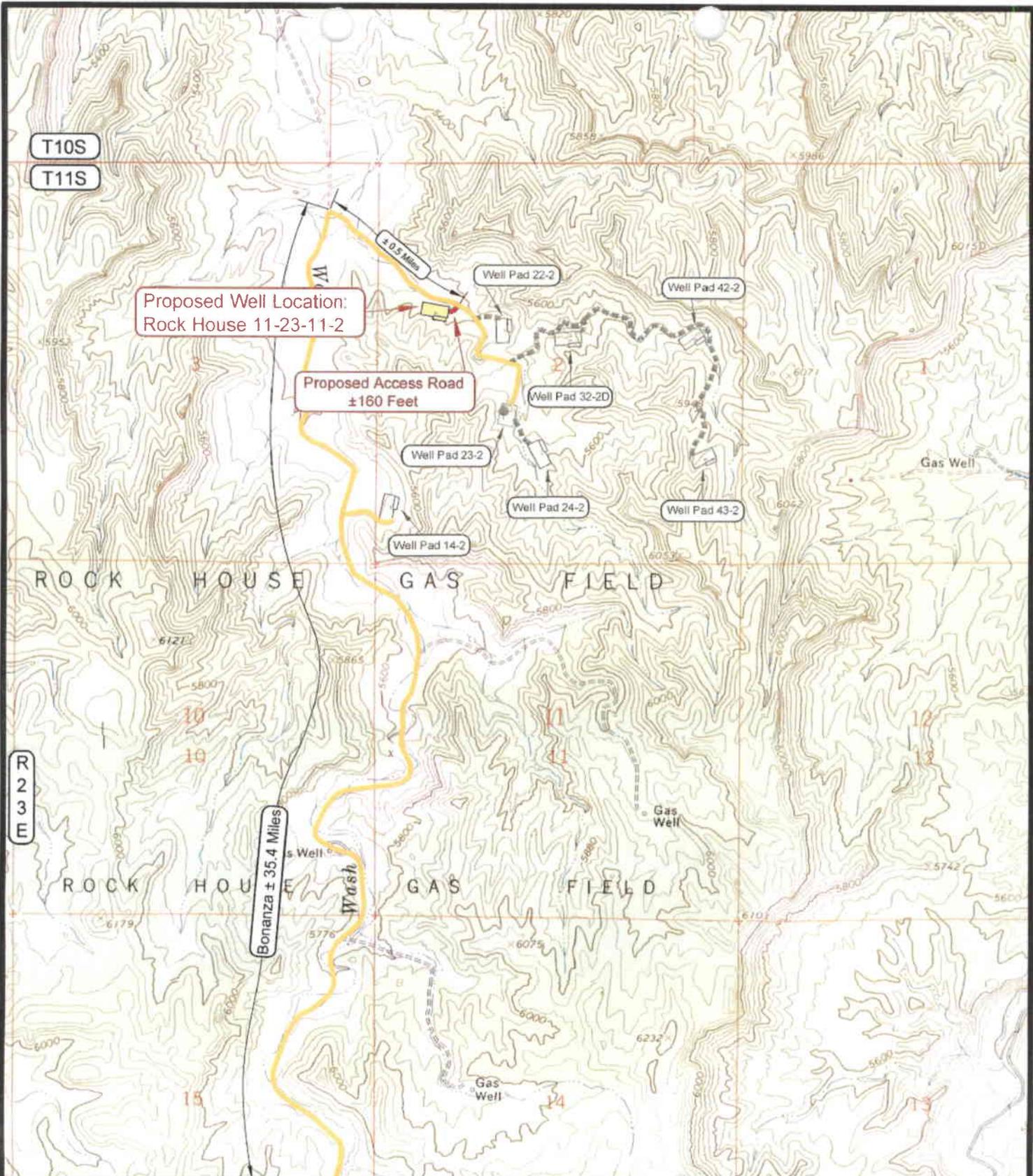
**ENDURING RESOURCES**

**Rock House 11-23-11-2**

Other wells on this pad: Rock House 11-23-12-2  
**SECTION 2, T11S, R23E, S.L.B.&M.**

**Timberline Land Surveying, Inc.**  
 38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

**SHEET**  
**8**  
**OF 11**



**LEGEND**

- PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = OTHER WELLS
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)
- (B-5480) = COUNTY ROAD CLASS & NUMBER
- = LEASE LINE AND / OR PROPERTY LINE



**ENDURING RESOURCES**

**Rock House 11-23-11-2**

Other wells on this pad: Rock House 11-23-12-2  
**SECTION 2, T11S, R23E, S.L.B.&M.**

**TOPOGRAPHIC MAP "B"**

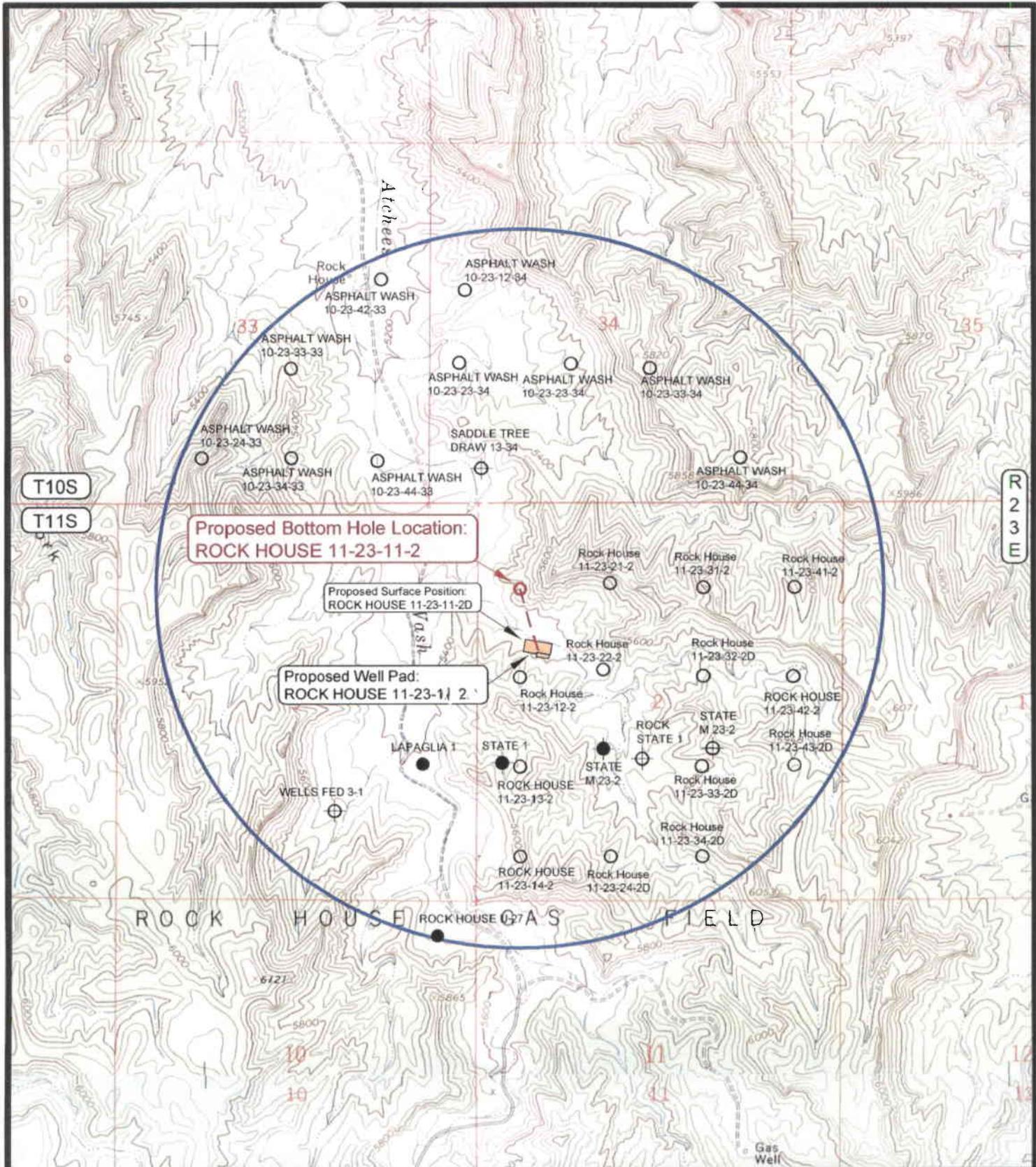
DATE SURVEYED: 12-19-05  
 DATE DRAWN: 01-13-06  
 REVISED: 05-11-06 M.W.V.

SCALE: 1" = 2000'

DRAWN BY: B.J.S.

**Timberline Land Surveying, Inc.**  
 38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

**SHEET**  
**9**  
**OF 11**



**LEGEND**

- ⊗ = DISPOSAL WELL
- = PRODUCING WELL
- = SHUT IN WELL
- = PROPOSED WELL
- = WATER WELL
- = ABANDONED WELL
- = TEMPORARILY ABANDONED WELL
- ⊕ = ABANDONED LOCATION

**TOPOGRAPHIC MAP "C"**

DATE SURVEYED: 12-19-05  
DATE DRAWN: 01-13-06

SCALE: 1" = 2000'

DRAWN BY: B.J.S.

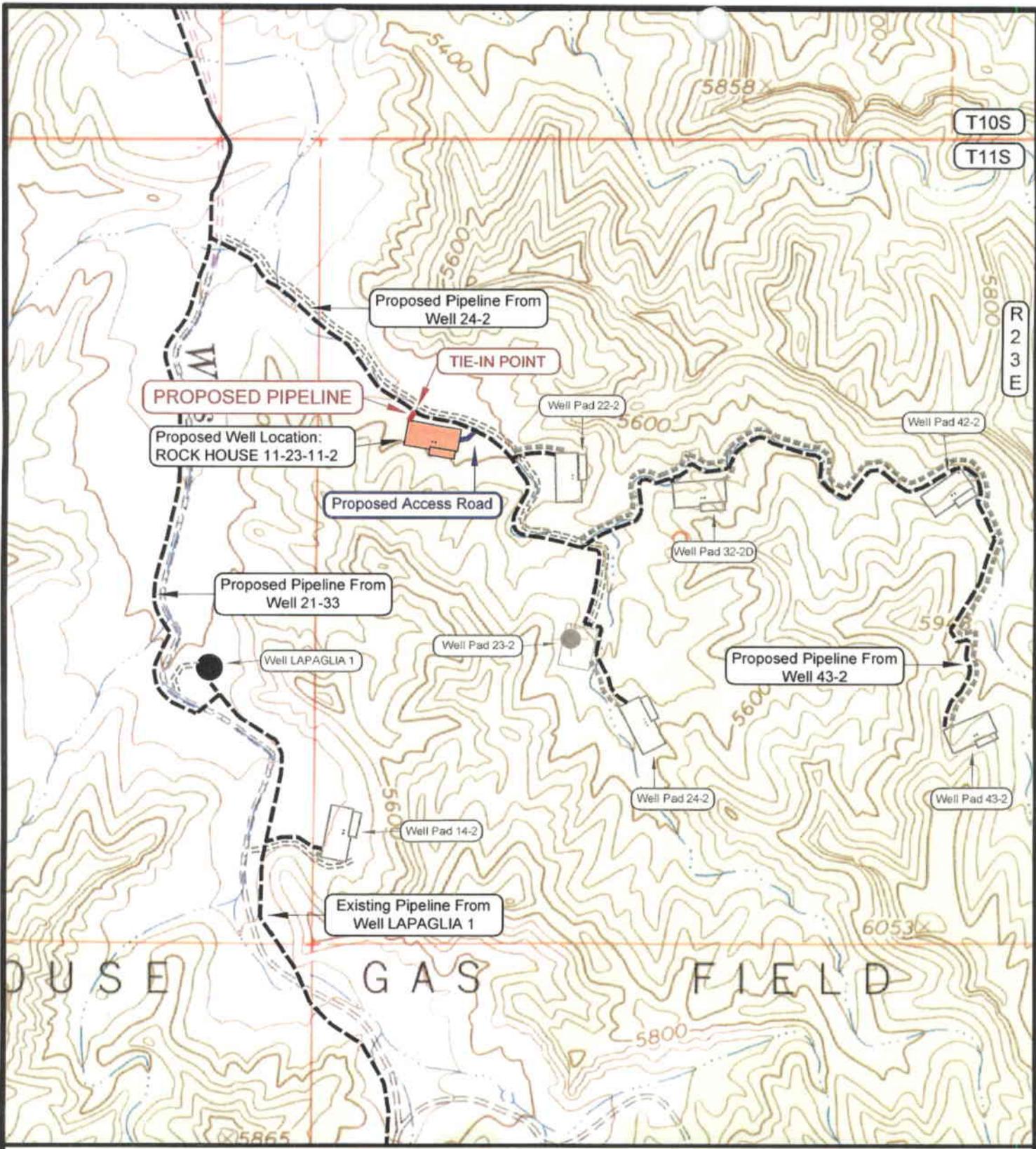
REVISED:

**ENDURING RESOURCES**

**ROCK HOUSE 11-23-11-2**  
**SECTION 2, T11S, R23E, S.L.B.&M.**  
**Bottom Hole: 1261' FNL & 665' FWL**

**Timberline Land Surveying, Inc.**  
38 West 100 North Vernal, Utah 84078  
(435) 789-1365

**SHEET**  
**10a**  
**OF 11**



**APPROXIMATE PIPELINE LENGTH = 80 Feet**

**LEGEND**

- - - - - = PROPOSED PIPELINE
- - - - - = OTHER PIPELINE
- - - - - = LEASE LINE AND/OR PROPERTY LINE
- - - - - = PROPOSED ACCESS ROAD
- - - - - = SUBJECT WELL
- = OTHER WELLS

**ENDURING RESOURCES**

**Rock House 11-23-11-2**  
 Other wells on this pad: Rock House 11-23-12-2  
**SECTION 2, T11S, R23E, S.L.B.&M.**

<b>TOPOGRAPHIC MAP "D"</b>		DATE SURVEYED: 12-19-05
SCALE: 1" = 1000'		DATE DRAWN: 01-13-06
DRAWN BY: B.J.S.	REVISED: 05-11-06 M.W.V.	

**Timberline Land Surveying, Inc.**  
 38 West 100 North Vernal, Utah 84078  
 (435) 789-1365

**SHEET 11 OF 11**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/30/2006

API NO. ASSIGNED: 43-047-38154

WELL NAME: ROCK HOUSE 11-23-11-2  
 OPERATOR: ENDURING RESOURCES, LLC ( N2750 )  
 CONTACT: AL ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SWNW 02 110S 230E  
 SURFACE: 2199 FNL 0861 FWL  
 BOTTOM: 1261 FNL 0665 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.89216 LONGITUDE: -19.31615  
 UTM SURF EASTINGS: 643966 NORTHINGS: 4416936  
 FIELD NAME: ROCK HOUSE ( 670 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DRLD	7/20/06
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-47078  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: MVRD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0008031 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-2216 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 210(B)  
Eff Date: 2-24-1999  
Siting: 460' for u b d r y & 920' for other wells.  
R649-3-2
- R649-3-11. Directional Drill

COMMENTS: Needs Permit (05-10-06)

STIPULATIONS: 1 - STATEMENT OF BASIS  
2 - Surface (sg) Cont stip

# NATURAL BUTTES FIELD

T10S R23E

T11S R23E

## ROCK HOUSE FIELD

CAUSE: 210-3B / 2-24-1999

LAPAGLIA 1

STATE 1

ROCK STATE 1

ROCK HOUSE II-23-34-2  
ROCK HOUSE II-23-33-2  
ROCK HOUSE II-23-24-2

BHL II-23-24-2

BHL II-23-34-2

ROCK HOUSE U 33

ROCK HOUSE U 27

RAINBOW UNIT

OPERATOR: ENDURING RES LLC (N2750)

SEC: 2 T. 11S R. 23E

FIELD: ROCK HOUSE (670)

COUNTY: UINTAH

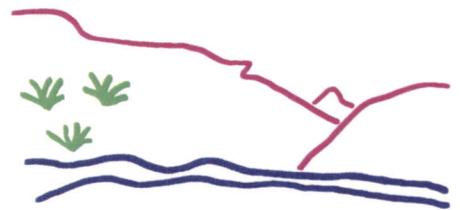
CAUSE: 210-3B / 2-24-1999

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

Unit Status	
	EXPLORATORY
	GAS STORAGE
	NF PP OIL
	NF SECONDARY
	PENDING
	PI OIL
	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

### Wells Status

	GAS INJECTION
	GAS STORAGE
	LOCATION ABANDONED
	NEW LOCATION
	PLUGGED & ABANDONED
	PRODUCING GAS
	PRODUCING OIL
	SHUT-IN GAS
	SHUT-IN OIL
	TEMP. ABANDONED
	TEST WELL
	WATER INJECTION
	WATER SUPPLY
	WATER DISPOSAL
	DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 6-JUNE-2006

**DIVISION OF OIL, GAS AND MINING**  
**APPLICATION FOR PERMIT TO DRILL**  
**STATEMENT OF BASIS**

**OPERATOR:** ENDURING RESOURCES, LLC  
**WELL NAME & NUMBER:** ROCK HOUSE 11-23-11-2D *(NOTE: This is a directional well planned off the same pad as the Rock House 11-23-12-2D also a directional well.*  
**API NUMBER:** 43-047-38154  
**LOCATION:** 1/4,1/4 SW/NW Sec: 2 TWP: 11S RNG: 23E 2199' FNL 861 FWL  
(PRODUCING ZONE) NW/NW (Lot 5); 1261' FNL---665 FWL

**Geology/Ground Water:**

Enduring proposes to set 2,000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 4,400 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this location is the Uinta/Green River Formation transition. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The Green River Formation is made up of interbedded limestones, shales and sandstones. Fresh water aquifers can be found in the Green River Formation and should be protected. The proposed surface casing should adequately protect any potentially useable aquifers. Production casing cement should be brought up above the base of the moderately saline ground water.

**Reviewer:** Brad Hill **Date:** 07-03-06

**Surface:**

The pre-drill investigation of the surface was performed on May 10, 2006. The surface and minerals are both owned by SITLA. Jim Davis represented SITLA at the pre-site.

The Rock House 11-23-11-2 and Rock House 11-23-12-2, both directional wells, will be drilled from this location. The location lies in the mouth of a secondary drainage of Atchee Wash. It is on the gentle south slope a small lateral ridge that joins a higher ridge to the south. This ridge then runs east to the main ridge divide. The top of the main ridge is formed by exposed bedrock cliffs and is the divide between Atchee Wash and Asphalt Wash. The drainage is open to the west with the bottom of Atchee Wash being about ½ mile away. One small draw intersects the location but drainage is not significant enough to require a diversion ditch. No stability problems are anticipated with the construction and operation of the location. Approximately 160 feet of new access road is planned from a newly constructed primary access road, which serves several other wells either existing or planned in this section. This road follows the narrow bottom of a wash, which continues south to the divide. This road may require heavy maintenance to remove alluvial deposits from summer storms, but is expected to be less impact on the landscape than constructing a route on the side hills out of the bottom of the wash. Ben Williams representing the UDWR stated the area is classified as high value winter habitat for elk and critical value winter deer habitat. This activity would include road and pad construction, drilling and work-over rigs. Mr. Williams gave both Mr. Hammond and Mr. Davis copies of his wildlife investigation report and a recommended seed mix to use when the site is revegetated.

**Reviewer:** Floyd Bartlett **Date:** 05/11/2006

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** ENDURING RESOURCES, LLC

**WELL NAME & NUMBER:** ROCK HOUSE 11-23-11-2D (NOTE: This is a directional well planned off the same pad as the Rock House 11-23-12-2D also a directional well.

**API NUMBER:** 43-047-38154

**LEASE:** ML-47087 **FIELD/UNIT:** UNDESIGNATED

**LOCATION:** 1/4,1/4 SW/NW Sec: 2 TWP: 11S RNG: 23E 2199' FNL 861 FWL  
(PRODUCING ZONE) NW/NW (Lot 5); 1261' FNL---665 FWL

**LEGAL WELL SITING:** 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.

**GPS COORD (UTM):** 643966 E; 4416937 N **SURFACE OWNER:** STATE OF UTAH (SITLA)

**PARTICIPANTS**

Floyd Bartlett (DOGM), Douglas Hammond (Enduring Resources) Mike Stewart (Ponderosa Construction), Jim Davis (SITLA), Colby Kay (Timberline Land Surveying, Inc.), Ben Williams (UDWR)

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

The proposed Rock House 11-23-11-2D well lies in the mouth of a secondary drainage of Atchee Wash. It is on the gentle south slope a small lateral ridge that joins a higher ridge to the south. This ridge then runs east to the main ridge divide. The top of the main ridge is formed by exposed bedrock cliffs and is the divide between Atchee Wash and Asphalt Wash. The drainage is open to the west with the bottom of Atchee Wash being about 1/2 mile away.

Atchee Wash is an ephemeral wash only flowing during the spring runoff and intense summer rainstorms. The White River is approximately 3 miles downstream to the north. No springs or seeps are known in the area. The location is approximately 14 miles south west of Bonanza Ut, and approximately 67 miles southwest of Vernal, UT. Access from Bonanza is by State Highway then Uintah County roads 26.9 miles to Atchee Wash, then north down Atchee Wash 7.5 miles to where a new road has been constructed which will serve as the principal access to this location and other locations within this section. From this road 160 feet of additional new access road is planned. The primary access road primarily follows the narrow bottom of a wash, which continues south to the divide. This road may require heavy maintenance to remove alluvial deposits from summer storms, but is expected to be less impact on the landscape than constructing a route on the Sid hills out of the bottom of the wash.

Topography in the general area is broad canyon bottoms separated by steep and often ledgy side-slopes, which top out onto broad ridge tops. Frequent outwash plains and deposits occur along the sides of the major bottoms. The drainages of Atchee and Asphalt Washes are broad somewhat gentle alluvial washes, which are dry except for spring runoff and sometimes-intense summer rainstorms.

## **SURFACE USE PLAN**

CURRENT SURFACE USE: wildlife and domestic sheep grazing and hunting.

PROPOSED SURFACE DISTURBANCE: Approximately 160 feet of access road, construction of a well location 390'x 180' plus a reserve pit and soil stockpile storage outside the described area.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: Several. See attached map from GIS database.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production facilities will be on location and added after drilling well. Approximately 80 feet of pipeline will follow access road and tie in with the pipeline from the 43-2 well.

SOURCE OF CONSTRUCTION MATERIAL: All construction material will be borrowed from site during construction of location.

ANCILLARY FACILITIES: None will be required.

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? EXPLAIN: Unlikely. Oilfield activity is common in the area and is the dominant use. The area is very isolated from general travel.

## **WASTE MANAGEMENT PLAN:**

Drilled cuttings will be settled into reserve pit. Liquids from pit will be allowed to evaporate. Formation water will be confined to storage tanks. Commercial contractor will handle sewage facilities, storage and disposal. Trash will be contained in trash baskets and hauled to an approved land fill.

## **ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: None.

FLORA/FAUNA: Well vegetated desert shrub site. Greasewood, big sagebrush, and poa spp.. Pronghorn, rodents, songbirds, raptors, elk, deer, bobcat, coyote.

SOIL TYPE AND CHARACTERISTICS: gravely sandy loam surface.

EROSION/SEDIMENTATION/STABILITY: One small draws intersect the location but drainage is not significant to require a diversion ditch. No stability problems are anticipated with the construction and operation of the location.

PALEONTOLOGICAL POTENTIAL: Survey completed 4-05-06 by IPC.

## **RESERVE PIT**

CHARACTERISTICS: 100' by 60' and 8' deep. The reserve pit is planned in an area of cut on the south east corner of the location. The reserve pit is 25 feet longer than normal to serve the 2 wells that are planned. No stabilization problems are expected.

LINER REQUIREMENTS (Site Ranking Form attached): A minimum of a 16 mil liner will be required for reserve pit. Sensitivity score is 40 and a rating Level II.

**SURFACE RESTORATION/RECLAMATION PLAN**

As per landowner agreement with SITLA.

SURFACE AGREEMENT: In place.

CULTURAL RESOURCES/ARCHAEOLOGY: Completed on 02-22-2006 by MOAC and will be furnished for the well file.

**OTHER OBSERVATIONS/COMMENTS**

Ben Williams representing the UDWR stated the area is classified as high value winter habitat for elk and critical value winter deer habitat. He explained how the areas are classified and recommended to Mr. Davis and Mr. Hammond that they limit their activity from Nov. 15 thru March 15 to protect wintering values for deer. This activity would include road and pad construction, drilling and work-over rigs. Mr. Williams gave both Mr. Hammond and Mr. Davis copies of his wildlife investigation report and a recommended seed mix to use when the site is revegetated.

This predrill investigation was conducted on a cool sunny day.

**ATTACHMENTS**

Photos of site have been taken and placed on file.

Floyd Bartlett  
DOGM REPRESENTATIVE

05/10/2006 1:15 PM  
DATE/TIME

**E. Evaluation Ranking Criteria and Ranking Scale  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>20</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**            40            (Level II Sensitivity)

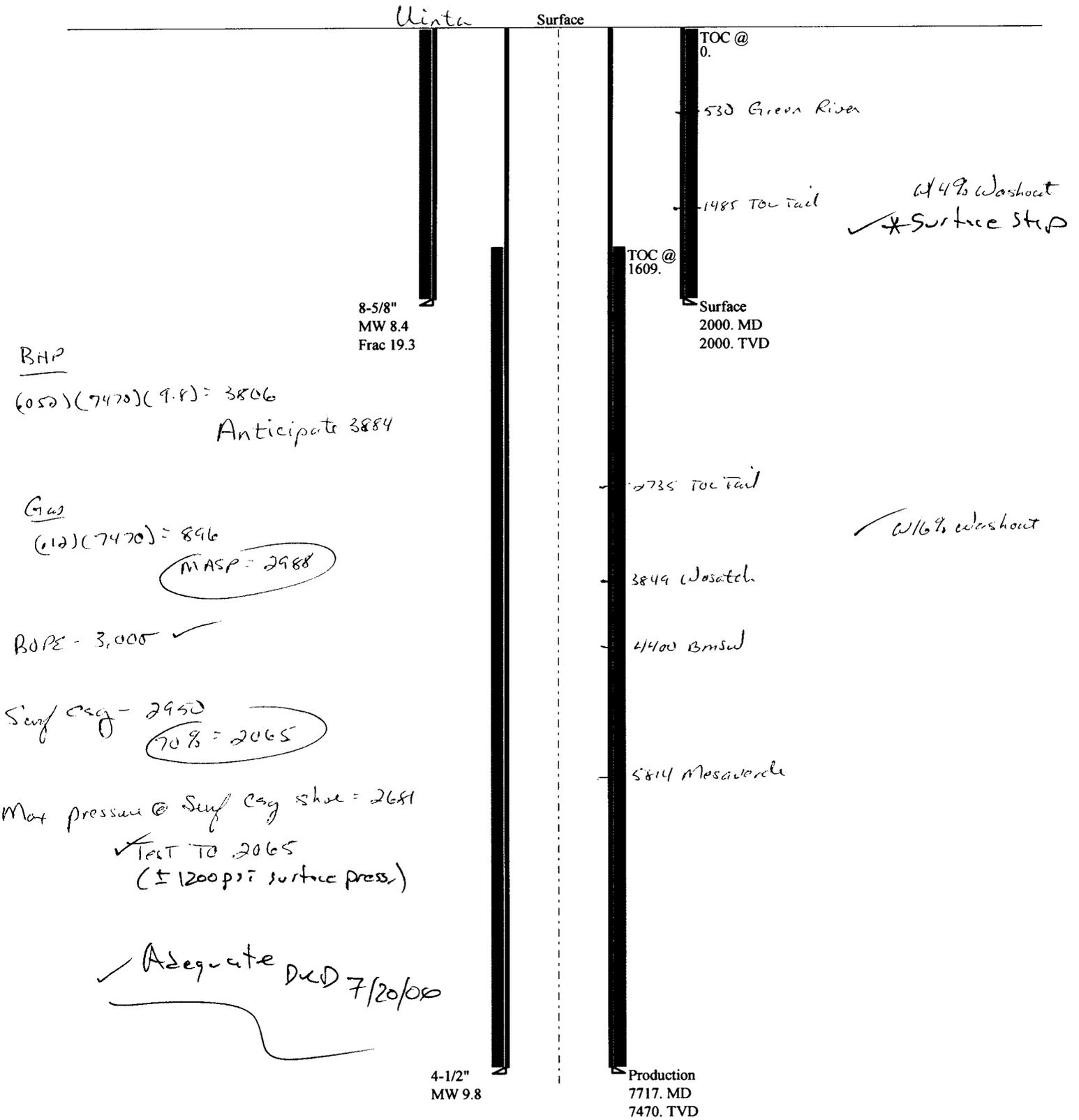
Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.

# 7-06 Enduring Rock House 11-23-11-2

## Casing Schematic



Well name:	<b>07-06 Enduring Rock House 11-23-11-2</b>	
Operator:	<b>Enduring Resource, LLC</b>	Project ID:
String type:	Surface	43-047-38154
Location:	Uintah County	

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 103 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 500 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 1,760 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 2,000 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 1,748 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,470 ft  
 Next mud weight: 9.800 ppg  
 Next setting BHP: 3,803 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 2,000 ft  
 Injection pressure 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	8.625	24.00	J-55	ST&C	2000	2000	7.972	96.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	873	1370	1.570	2000	2950	1.48	42	244	5.82 J

Prepared by: Clinton Dworshak  
 Utah Div. of Oil & Mining

Phone: 801-538-5280  
 FAX: 801-359-3940

Date: July 3, 2006  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>07-06 Enduring Rock House 11-23-11-2</b>	
Operator:	<b>Enduring Resource, LLC</b>	Project ID:
String type:	Production	43-047-38154
Location:	Uintah County	

**Design parameters:**

**Collapse**

Mud weight: 9.800 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 180 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 1,609 ft

**Burst**

Max anticipated surface pressure: 1,215 psi  
 Internal gradient: 0.346 psi/ft  
 Calculated BHP 3,803 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

**Directional well information:**

Kick-off point 0 ft  
 Departure at shoe: 959 ft  
 Maximum dogleg: 4 °/100ft  
 Inclination at shoe: 0 °

Tension is based on buoyed weight.

Neutral point: 6,623 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7717	4.5	11.60	N-80	LT&C	7470	7717	3.875	178.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3803	6350	1.670	3803	7780	2.05	74	223	3.02 J

Prepared by: Clinton Dworshak  
 Utah Div. of Oil & Mining

Phone: 801-538-5280  
 FAX: 801-359-3940

Date: July 3, 2006  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7470 ft, a mud weight of 9.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 20, 2006

Enduring Resources, LLC  
475 17th St., Ste. 1500  
Denver, CO 80202

Re: Rock House 11-23-11-2 Well, 2199' FNL, 861' FWL, SW NW, Sec. 2,  
T. 11 South, R. 23 East, Bottom Location 1261' FNL, 665' FWL, NW NW,  
Sec. 2, T. 11 South, R. 23 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38154.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA

**Operator:** Enduring Resources, LLC  
**Well Name & Number** Rock House 11-23-11-2  
**API Number:** 43-047-38154  
**Lease:** ML-47078

**Location:** SW NW **Sec.** 2 **T.** 11 South **R.** 23 East  
**Bottom Location:** NW NW **Sec.** 2 **T.** 11 South **R.** 23 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. Surface casing shall be cemented to surface.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>ML-47078</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>		9. WELL NAME and NUMBER: <b>Rock House 11-23-11-2</b>	
3. ADDRESS OF OPERATOR: <b>475 17th St., Ste 1500</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80220</b>		PHONE NUMBER: <b>(303) 350-5114</b>	10. FIELD AND POOL, OR WILDCAT: <b>Rock House</b> <i>WTO</i>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>2199' FNL - 861' FWL SWNW, Sec 2-11S-23E</b> AT PROPOSED PRODUCING ZONE: <b>1261' FNL - 665' FWL NWNW, Sec 2-11S-23E</b> <i>643966 X 4416936 Y 39.892163 -109.316150</i> <i>643903 X 4417220 Y 39.894733 -109.316233</i>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWNW 2 11S 23E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>75.2 miles Southeast from Vernal, Utah</b>		12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>Surf 861' BHL 665'</b>	16. NUMBER OF ACRES IN LEASE: <b>640 acres</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 acres</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>1000' + BHL (25' Surf)</b>	19. PROPOSED DEPTH: <b>7,470</b>	20. BOND DESCRIPTION: <b>RLB0008031</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5413' KB-RT</b>	22. APPROXIMATE DATE WORK WILL START: <b>8/1/2006</b>	23. ESTIMATED DURATION: <b>20 days</b>	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
20"	14" line pipe	40	3 yards	Ready Mix	
11"	8-5/8" J-55 24#	2,000	Premium Lead	138 sxs	3.50 11.1
			Premium Tail	138 sxs	1.15 15.8
7-7/8"	4-1/2" N-80 11.6#	7,470	Class G	92 sxs	3.3 11.0
			50/50 Poz Class G	861 sxs	1.56 14.3

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

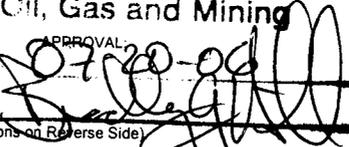
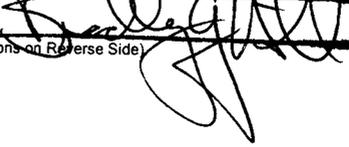
NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist

SIGNATURE  DATE 5/16/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-38154

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

APPROVAL:   
Date: 07-20-06  
By: 

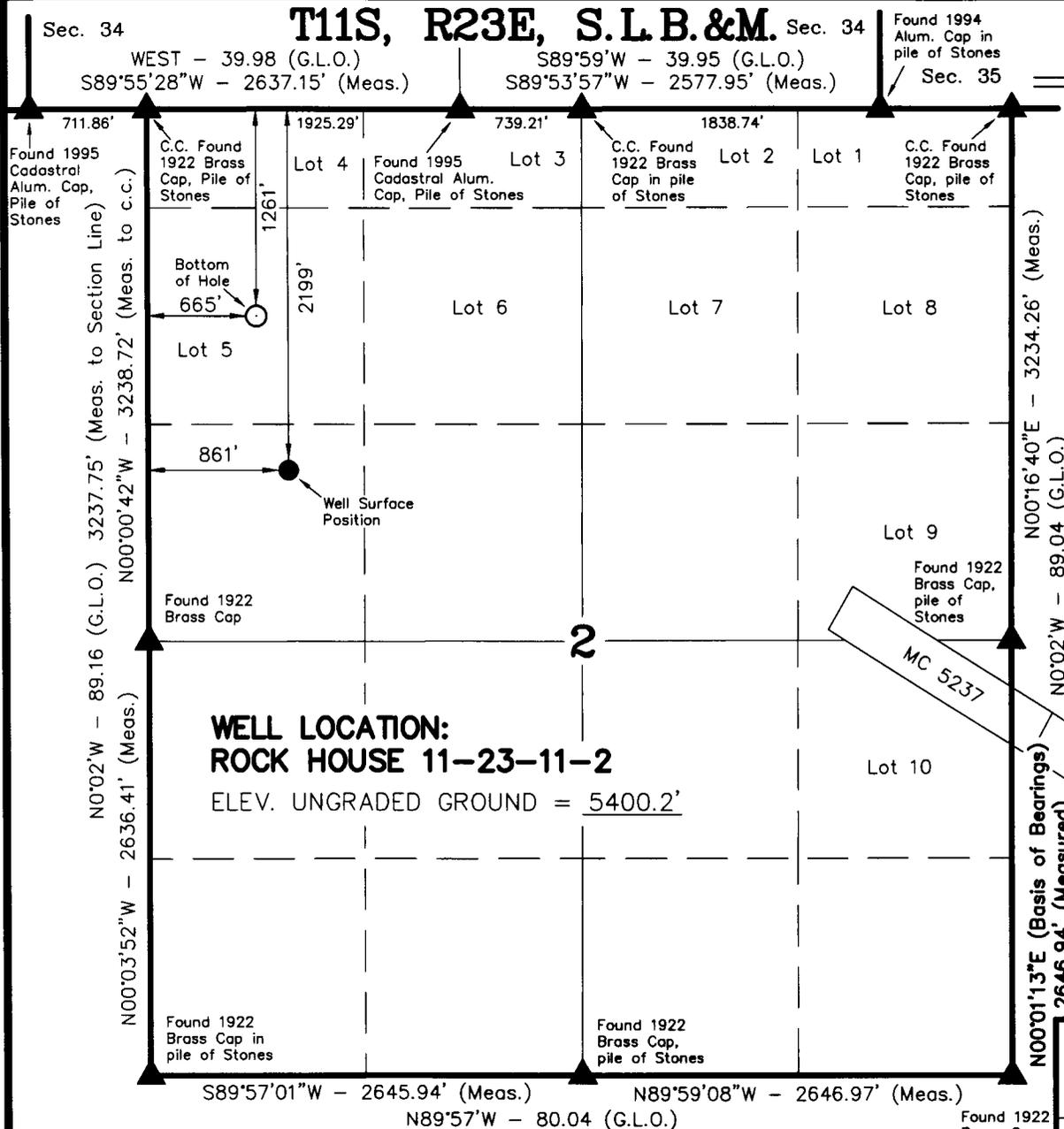
(See Instructions on Reverse Side)

**RECEIVED  
MAY 30 2006**

DIV. OF OIL, GAS & MINING

**T11S, R23E, S.L.B.&M. Sec. 34**

**ENDURING RESOURCES**



WELL LOCATION, ROCK HOUSE  
11-23-11-2D, LOCATED AS SHOWN IN  
LOT 5 OF SECTION 2, T11S, R23E,  
S.L.B.&M. UINTAH COUNTY, UTAH.

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. The Bottom of hole bears N11°48'35"W 958.47' from the well surface position.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is triangulation station JEK 19 ET 1966 which is located near the South 1/4 corner of Section 8, T11S, R23E, S.L.B.&M. The elevation of this triangulation station is marked on the Archy Bench SE 7.5 min. Quadrangle as being 6054'.



▲ = SECTION CORNERS LOCATED

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Kolby R. Kay*  
No. 362251  
KOLBY R.  
REGISTERED LAND SURVEYOR  
REGISTRATION STATE OF UTAH  
STATE OF UTAH

**TIMBERLINE LAND SURVEYING, INC.**

38 WEST 100 NORTH. - VERNAL, UTAH 84078  
(435) 789-1365

DATE SURVEYED: 12-19-05	SURVEYED BY: D.J.S.	<b>SHEET</b> <b>2b</b> <b>OF 11</b>
DATE DRAWN: 01-09-06	DRAWN BY: B.J.S.	
SCALE: 1" = 1000'	Date Last Revised:	

**ROCK HOUSE 11-23-11-2**  
**(Bottom Hole) NAD 83 Autonomous**  
LATITUDE = 39° 53' 41.01"  
LONGITUDE = 109° 19' 03.20"

**ROCK HOUSE 11-23-11-2**  
**(Surface Position) NAD 83 Autonomous**  
LATITUDE = 39° 53' 31.74"  
LONGITUDE = 109° 19' 00.69"

Found 1922  
Brass Cap  
in pile of  
Stones

**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 6/27/2006 10:17:58 AM  
**Subject:** Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

Dominion E&P, Inc  
LCU 1-2H

Enduring Resources, LLC  
Rock House 10-23-23-32  
Rock House 11-23-11-2

EOG Resources, Inc  
Big Spring 3-36 GR  
East Chapita 30-16

The Houston Exploration Company  
North Horseshoe 1-16-6-21  
North Horseshoe 13-16-6-21  
North Horseshoe 13-2-6-21  
North Horseshoe 15-2-6-21

Kerr McGee Oil & Gas Onshore LP  
NBU 921-25A  
NBU 921-25P  
NBU 921-35J  
NBU 922-32K2

Questar Exploration & Production  
HR 2MU-2-12-23  
HR 3MU-2-12-23  
HR 6MU-2-12-23 (Cleared provided operator follows arch consultants recommendation to move location avoiding significant site)  
HR 10MU-2-12-23  
HR 12MU-2-12-23  
HR 14MU-2-12-23  
HR 16MU-2-12-23

Stone Energy Corporation  
Stone Rush 44-32-8-17

If you have any questions regarding this matter please give me a call.

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

CONFIDENTIAL

FORM 9

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR: **Enduring Resources, LLC**

3. ADDRESS OF OPERATOR: **475 17th Street, Suite 1500** CITY: **Denver** STATE: **CO** ZIP: **80202** PHONE NUMBER: **(303) 350-5719**

5. LEASE DESIGNATION AND SERIAL NUMBER: **ML-47078**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: **n/a**

7. UNIT or CA AGREEMENT NAME: **n/a**

8. WELL NAME and NUMBER: **Rock House 11-23-11-2**

9. API NUMBER: **4304738154**

10. FIELD AND POOL, OR WILDCAT: **Undesignated**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **2199' FNL - 861' FWL** COUNTY: **Uintah**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWNW 2 11S 23E S** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>Request for APD Extension</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 7/20/2007  
TO: 7/20/2008

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 07-23-07  
By: [Signature]

NAME (PLEASE PRINT) Evette Bissett TITLE Regulatory Affairs Assistant

SIGNATURE [Signature] DATE 7/17/2007

(This space for State use only)

RECEIVED

JUL 19 2007

DIV. OF OIL, GAS AND MINING

7-25-07  
RM

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304738154  
**Well Name:** Rock House 11-23-11-2  
**Location:** 2199' FNL - 861' FWL, SWNW, Sec 2, T11S-R23E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 7/20/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

Grette Bissett  
Signature

7/17/2007  
Date

**Title:** Regulatory Affairs Assistant

**Representing:** Enduring Resources, LLC

RECEIVED

JUL 19 2007

DIVISION OF OIL AND GAS MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**CONFIDENTIAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**

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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47078
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: n/a
PHONE NUMBER: (303) 350-5114		8. WELL NAME and NUMBER: Rock House 11-23-11-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2199' FNL - 861' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 11S 23E S		9. API NUMBER: 4304738154
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesignated
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

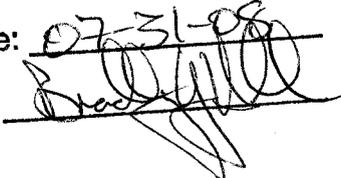
TYPE OF SUBMISSION	TYPE OF ACTION		
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	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 7/23/2008  
TO: 7/23/2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 07-31-08  
By: 

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman</u>
SIGNATURE 	DATE <u>6/25/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 8.4.2008

Initials: KS

(See Instructions on Reverse Side)

(5/2000)

**RECEIVED**  
JUL 25 2008  
DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304738154  
**Well Name:** Rock House 11-23-11-2  
**Location:** 2199' FNL - 861' FWL, SWNW, Sec 2, T11S-R23E  
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Is bonding still in place, which covers this proposed well? Yes  No

*Tal Bennett*  
Signature

6/25/2008  
Date

Title: Administrative Assistant

Representing: Enduring Resources, LLC

**RECEIVED**  
**JUL 25 2008**  
**DIV. OF OIL, GAS & MINING**



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

August 5, 2009

Enduring Resources, LLC  
475 17<sup>TH</sup> Street Ste 1500  
Denver, CO 80202

Re: APD Rescinded – Rock House 11-23-11-2, Sec. 2, T.11S, R. 23E  
Uintah County, Utah API No. 43-047-38154

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on July 20, 2006. On July 23, 2007 and July 31, 2008, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective August 5, 2009.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Ed Bonner, SITLA

